

DELHI TECHNOLOGICAL UNIVERSITY

MINUTES

of

38th Meeting

ACADEMIC COUNCIL

Date : 07.03.2024

Time : 11:00 A.M.

Venue : Vigyan Hall, 2nd Floor, Admin. Block

Shahbad Daulatpur, Bawana Road, Delhi-110042

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Delhi Technological University

(Estd. by Govt. of Delhi vide Act No. 6 of 2009)
(Formerly Delhi College of Engineering)

No. F.DTU/Council/AC-Meeting/60/2024/449

Dated : 26/3/2024

Minutes of the 38th meeting of the Academic Council held in hybrid mode on 07.03.2024 at 11:00 a.m. in Vigyan Hall, 2nd Floor, Admin. Block, DTU.

The following members were present:

1. Prof. Prateek Sharma, Vice Chancellor, Delhi Technological University and Chairperson, Academic Council.
2. Prof. Vasant Matsagar, Civil Engineering Department, Indian Institute of Technology, Delhi (Online)
3. Prof. Shashi K. Dhiman, Himachal Pradesh University, Summer Hill, Shimla (Online)
4. Prof. Rinku Sharma, Dean Academic (PG)
5. Prof. Rajeshwari Pandey, Dean Academic (UG) & Controller of Examinations
6. Prof. S. Indu, Dean, Student Welfare
7. Prof. Pravir Kumar, Dean, International Affairs.
8. Prof. A.K. Srivastava, Dean, Outreach & Extension Activities
9. Prof. Rajiv Chaudhary, Dean, Student Discipline
10. Prof. Rajesh Rohilla, Dean, Alumni Affairs & Head (T&P)
11. Prof. Nirendra Dev, Dean, Planning & Consultancy
12. Prof. A.K. Sahu, Dean, Industrial Research & Development
13. Prof. Rachna Garg, Head, Electrical Engineering Department
14. Prof. K.C. Tiwari, Head, Civil Engineering Department
15. Prof. S. K. Garg, Head, Mechanical Engineering Department
16. Prof. Ruchika Malhotra, Head, Software Engineering Department
17. Prof. Vinod Kumar, Head, Computer Science & Engineering Department
18. Prof. Dinesh K. Vishwakarma, Head, Information Technology Department
19. Prof. O.P. Verma, Head, Electronics & Communication Engg. Department
20. Prof. R.C. Singh, Head, Department of Design
21. Prof. Anil Kumar, Head, Applied Chemistry Department
22. Dr. Saroj Bala, Head, Department of Humanities
23. Prof. Ramesh Srivastava, Head, Applied Mathematics Department
24. Prof. A. S. Rao, Head, Applied Physics Department
25. Prof. Yasha Hasija, Head, Biotechnology Department
26. Prof. Anil K. Haritash, Head, Environmental Engineering Department
27. Dr. Saurabh Agrawal, Head, Delhi School of Management
28. Prof. Amit Mookerjee, Head, University School of Management and Entrepreneurship (USME)



29. Prof. Ram Bhagat, In-charge B.Tech (Continuing Education)
30. Ms. Divya Narayan, Head, Computer Centre
31. Prof. Vishal Verma, Electrical Engineering Department
32. Prof. P.K. Suri, Delhi School of Management, DTU
33. Prof. Devendra Kumar, Applied Chemistry Department
34. Dr. Anil Kumar, Associate Professor, Mechanical Engineering Department
35. Dr. Yashna Sharma, Assistant Professor, Electronics & Communication Engineering Department
36. Prof. Madhusudan Singh, Registrar and Member Secretary, Academic Council, DTU.

Following faculty members also joined the meeting as special invitee:

1. Prof. Neeta Pandey, Director, IQAC
2. Dr. P.K. Goyal, Director, HRDC
3. Prof. Raju Sarkar, Associate Dean (Academic- PG)
4. Prof. Girish Kumar, CEO, DTU-IIF

Agenda 38.1 : Opening Remarks by the Chairperson.

Prof. Prateek Sharma, Hon'ble Vice Chancellor, DTU welcomed Prof. Vasant Matsagar, Civil Engineering Department, Indian Institute of Technology, Delhi, Prof. Shashi K. Dhiman, Himachal Pradesh University, Shimla, all Deans, HODs and other members of Academic Council. Hon'ble Vice Chancellor briefed the house about various activities held in the University since last Academic Council meeting held on 11.12.2023.

The University has conducted its 10th Convocation on 16.11.2023 and conferred total 3620 degrees for UG, PG and Ph.D. students who have completed the requirements for award of degrees. Out of which 2628 Under Graduate degrees, 845 Post Graduate degrees and 147 Ph.D degrees were awarded.

Two newly constructed Academic Blocks AB-3 and AB-4 were inaugurated by the Hon'ble Lt. Governor/Chancellor Sh. Vinai Kumar Saxena and Hon'ble Minister of Education, Ms. Atishi in presence of the University authorities.

Four academic departments namely, Information Technology, Computer Science and Engineering, Software Engineering and Applied Mathematics along with DTU-IIF and Vinod Dham Centre of Excellence for Semiconductor and Microelectronics are shifted into new academic blocks and are fully functional.

Hon'ble Vice Chancellor apprised the house that DDA has provisionally allotted 47.46 acres land and 200 EWS flats to DTU in Narela sub-city in North Delhi to establish its North campus. This new campus of DTU will focus on developing academic departments, cutting-edge global research and innovation centres. Through this additional campus, the Delhi Technological University aims to expand its research and training facilities for the realization of the strategic plans of the university. The university aims at the development of a research park to encourage entrepreneurial opportunities, development of cutting-edge research facilities, establishment of centres of excellence in emerging areas of research such as AI, Robotics and Drone Technology, Energy Transitions and state-of-the-art teaching and learning centre for Community development and training.

To empower entrepreneurs and the incubation facility, the University aims to establish a research park that will foster a climate of innovation in collaboration with industry for translating intellectual property from laboratory to industry for "Product Development" where academia, industry, and government agency may interact for propelling applied research and entrepreneurship.

A detailed project report (DPR) is submitted to the government by the University for financial and other administrative approvals in this regard.

Further, DTU Training and Placement Department is committed to provide excellent placement opportunities to its students. In the ongoing academic session 2023-24, the top recruiters who visited for campus recruitment include Google, Microsoft, Apple, Zomato, Adobe, Intuit, Salesforce, SRIB, UBER, Fast Retailing, Samsung, Qualcomm, Texas Instruments, Maruti, Tata Motors, GAIL, EIL, Morgan Stanley, BAIN, Mckinsey, KPMG, PWC and other similar organizations.

In the academic year 2023-24 (Till date) a total of 239 **companies** have made **1362 job** offers to students from various streams of UG & PG programs in diverse fields of engineering and technology.

- Highest Package at Rs. 85.3 LPA (Atlassian).
- Average Package is Rs. 15.74 LPA.

Also 50 companies have offered internship to more than 100 students with average stipend of Rs. 63000 per month and highest stipend of Rs. 2 Lacs per month offered by Sprinklr.

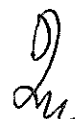


Agenda 38.2 : Confirmation of the minutes of the 37th meeting of Academic Council held on 10.11.2023.

The minutes of the 37th meeting of Academic Council held on 10.11.2023 were circulated among all the members vide no. F.No.DTU/ Council/ AC-Meeting/ 53/ 2023/ 418 dated 10.11.2023. A copy of minutes of the meeting is placed at Annexure pages 01 to 14.

No comments were received from any of the members.

Decision : The Academic Council confirmed the minutes of its 37th meeting held on 10.11.2023



Agenda 38.3 : Action taken report on the decisions taken in the 37th meeting of the Academic Council.

Minutes of the 37th meeting held on 10.11.2023 were circulated to members and concerned persons for further necessary action. Action Taken Report on the decisions taken in the 37th meeting of the Academic Council is as below:

S. No.	Agenda Item	Decision	Compliance Report
37.1	Opening Remarks by the Chairperson.	Points mentioned are taken on record.	Matter of record.
37.2	Confirmation of the minutes of the 36 th meeting of Academic Council held on 14.07.2023.	The Academic Council confirmed the minutes of its 36 th meeting held on 14.07.2023.	Matter of record.
37.3	Action taken report on the decisions taken in the 36 th meeting of the Academic Council.	The Academic Council took the Action Taken Report on its 36 th meeting on record.	Matter of record.
37.4	To consider the proposal of conferment of degrees on the students who have successfully completed the requirements prescribed under the ordinances of the University.	The Academic Council considered and approved the list of students eligible for the award of degrees in 10 th Convocation – 2023 and authorized Vice Chancellor to include candidates who become eligible for conferment of degree in due course.	Degrees were conferred to the eligible graduands in 10 th convocation held on 16.11.2023.
37.5	Approval for introducing new course as department elective for the students of M.Sc. (Chemistry) 4 th Semester.	The Academic Council considered and approved for introducing new elective course as department elective for the students of M.Sc. (Chemistry) 4 th Semester. However, the course code of the said subject may be finalized in consultation with Dean, Academic-UG and Dean, Academic –PG.	Implemented.
37.6	Approval for modification of name and details syllabus of CH103 (SEC 1) and CH104 (SEC 2) Courses for B. Tech in Chemical Engineering students.	The Academic Council considered and approved the revised names and syllabi of CH103 (SEC 1) and CH104 (SEC 2) Courses for B.Tech Chemical Engineering.	Implemented
37.7	Weightage of 70% for the entrance test and 30% for the performance in the	The Academic Council considered and approved the weightage of 70%	Notified vide notification no. F.104-77/ Acad-PG/

	interview/ viva voce in the Ph.D Admissions, DTU in line with the University Grants Commission (Minimum Standards and Procedures for Award of Ph.D Degree) Regulations, 2022 notified on 07.11.2022.	for the entrance test and 30% for the performance in the interview/ viva voce in the Ph.D admissions of DTU w.e.f. January 2024. Further, the shortlisting criteria for interview shall be the same as per existing criteria.	Committee/ Ordn. Regulation/ 2022/ 14214-19 dated 22.12.2023.
37.8	Approval of Admission Brochure for Ph.D. Admission January 2024 (winter session).	The Academic Council considered and approved the Admission Brochure for Ph.D. Admission January 2024 (Winter Session).	Admission completed.
37.9	Any other item with the permission of the Chair.	No other item.	Matter of record.

Decision : The Academic Council took the Action Taken Report on record.

Agenda 38.4 : Revision of Format of Thesis and Synopsis for the Master's and Ph.D Program.

Meeting of the Committee to evaluate/ finalize the thesis format in respect to the Ph.D and PG Programmes DTU was held on 23.11.2023, 08.12.2023 and 02.01.2024 in the office of HoD, IT. Following were present:

1. Prof. Dinesh Kumar Vishwakarma, HOD, IT	Chairperson
2. Prof. Rishu Chaujar, Deptt of AP	Member
3. Dr. Virender Ranga, Asso. Prof, Deptt of IT	Member
4. Dr. Manjeet Kumar, Astd Prof., Deptt of ECE	Member
5. Dr. Sanjay Kumar, Astd. Prof, Deptt of CSE	Member
6. Dr. Rohit Kumar, Astd. Prof. Deptt. of ECE	Member

The Committee took note of the following:

1. There was no fixed format of Ph.D/ Master's Thesis at DTU.
2. An attempt has been made to prepare a format of Ph.D Master's thesis which can homogeneously be followed by the students of DTU for preparation of their thesis.
3. The Committee referred the best practices being followed in the different renowned institutes of India such as IIT Delhi, IIT Bombay, NSUT etc.
4. The Committee discussed the following aspects of the thesis:
 - (i) Preamble
 - (ii) Organization of the Thesis
 - (iii) Thesis preparation
 - (iv) Typing Instructions
 - (v) Numbering Instructions
 - (vi) Thesis submission and Binding Specifications.
 - (vii) Size of the Thesis
 - (viii) References
5. In addition, the Committee also discussed how the outcome of the thesis will help the society and policy makers and the same is added in the proposed format.

Thesis format for PG/ Ph.D programs, DTU is placed at **Annexure pages 1 to 22.**

Decision : The Academic Council considered and approved the format for submission of Thesis and Synopsis for the Master's and Ph.D programs with minor changes as suggested by the Council.

Agenda 38.5 : Framing/ review of the Guidelines for contingency utilization in r/o full time Ph.D. Research Scholars who are getting DTU fellowship.

Meeting of Committee members duly constituted to frame/ review the rules/ guidelines for contingency, utilization order and prepare guidelines in r/ o Ph.D. Research Scholars who are getting DTU contingency was held on 13.04.2023.

The following members were present in the meeting:

1.	Prof. Ram Singh, Deptt. of Applied Chemistry	Chairperson
2.	Prof. Vijay Gautam, Deptt. of Mechanical Engg.	Member
3.	Dr. Jasraj Meena, Deptt. of Information Technology (Representative of Prof. Dinesh Kr. Vishwakarma, Deptt. of Information Technology)	Member
4.	Dr. Rohit Kumar, Deptt. of Electronics & Commu. Engg.)	Member
5.	Ms. Manju Rani Pal, AAO, Accounts Branch	Member

After detailed discussion & deliberations w.r.t. framing/ reviewing the rules/ guidelines for contingency grant, in respect of Ph.D. Research Scholars who are getting DTU fellowship and contingency, following have been recommended:

Presently, as per Office Order no. DTU/ 32/ AC/ 2013/ 1161 dated 05.09.2014 (Table 1), the Ph.D. Research Scholars (Full Time with DTU Fellowship) are availing contingency as per following norms with maximum limits mentioned against each head as per approval of the Competent Authority of DTU. The prescribed amount of contingency grant is Rs. 17,500/ -.

Table 1.

S. No.	Heads	Items	Max. % utilization per year
1.	Books	Books, Journals subscriptions, magazines	40%
2.	Stationary	Photocopy, printout, various stationary items, cartridge	20%
3	Conference	Conference fee, membership of society, publication fee, library fee	40%
4.	Chemicals/ software/ spare parts of machine	Chemicals, glass ware, software, spare parts of machine, proto type machine, any fabrications, outsource testing, computer/ laptop accessories, pen drive, small electrical and electronics items	50%
5.	Travel	Any travel related to research project/ conference within country, 3 rd AC rail fare, taxi/ auto fare are allowed	30%

The above said office order was passed in 2014. The Committee reviewed the order with respect to the inflation in prices and research parameters in present scenario. The members are of the view that the maximum % utilization per year shall be reshuffled and revised. Also, the different heads to be revised. Therefore, the Committee recommends the following Heads & items within the prescribed limit of Rs. 17,500/- as listed/ detailed (Table 2) below:

Table 2

S. No.	Heads	Items	Proposed Max. % utilization per year [#]	Existing Max % utilization per year
1.	Books/ Stationary	Books, Journals subscriptions, magazines, photocopy, printouts, various stationary items	40%	60%
2.	Conference	Conference fee, membership of society, publication fee	50%	40%
3.	Consumables	Chemicals, Biological kits, Glass wares, Plastic wares, software, spare parts of machines, repair of machines, proto type machines, small electrical and electronics items, electrical repairs	60%	50%
4.	Computer Peripherals/ accessories	computer/ laptop accessories, pen drive, hard disk, cartridges, any computer/ laptop related miscellaneous items, computer power backup/ UPS	40%	
5.	Research and Development	Experiments/ Research work/ Procedure/ Data fee, any fabrications, outsource testing, Experimental data, characterization fee, spectroscopic data charges etc.	60%	New
6.	Travel	Any travel related to research work/ field visits/ conference within country, 3 rd AC rail fare, taxi/ auto fare	40%	30%

#In exceptional cases, the % limit of expenditure may be relaxed on the recommendation of supervisor(s) and Head of the Department.

Decision : The Academic Council considered and recommended to the Board of Management for approval of the Guidelines for contingency utilization in r/ o full time Ph.D. Research Scholars who are getting DTU fellowship as per heads mentioned in Table-2 with no capping on expenditure under contingency head.

Agenda 38.6 : To consider the request of M.Tech students for mercy chance to complete M. Tech. Major Project-II.

It was submitted to the Academic Council that the following students requested for mercy chance to complete their M. Tech. Major Project-II:

S. No.	Name & Roll No.	Candidate Details	Reason given for not completion of course in stipulated time frame
1.	Mr. Bhushan Kumar 2K15/ THE/ 501	<ol style="list-style-type: none"> Mr. Bhushan Kumar is a part time student in the Department of Mechanical Engineering His span period to complete M. Tech. (Part time) programme has expired in July 2020. He has completed his 1st to 3rd Semester (all theory and practical paper) 	<ol style="list-style-type: none"> He is working in DRDO, Ministry of defence which has all India service liabilities. He had been transferred from Delhi to DRDE, Gwalior dated 13.01.2020 and transferred back to Delhi on 18.04.2022. He could not able to complete his Major Project-II in prescribed time frame.
2.	Mr. Ram Chandra Bind 2K16/THE/ 501	<ol style="list-style-type: none"> Mr. Ram Chandra Bind is a part time student in the Department of Mechanical Engineering. He has finished the theory course work papers for the entire programme. He was unable to turn in the Major Project-II. 	<ol style="list-style-type: none"> He was suffered from COVID-19 and hospitalized in an emergence case from 12th July to 21st July 2020 and he also experienced post COVID implications for approximately a year. Further, his mother was ill in July 2021 and passed away on 11.09.2021. Later on, his father had been diagnosed with 4th stage gall bladder cancer and passed away suddenly on 11.07.2022. Consequently, he became emotionally upset as a result and could not work further on his Major Project-II.
3.	Mr. Sandeep Poonia 2K16/ISY/10	<ol style="list-style-type: none"> Mr. Sandeep Poonia Roll no. 2K16/ ISY/ 10 is a Full Time student in the department of Information 	<ol style="list-style-type: none"> He has mentioned that due to personal reasons he has a back paper in "Digital Image Processing" in the 1st semester.

		<p>Technology for the session 2016-2018.</p> <p>2. He has mentioned that due to personal reasons he has a back paper in "Digital Image Processing" in the 1st semester</p>	<p>2. He has requested to consider his plea and let him appear in the "Digital Image Processing" examination.</p>
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As per M. Tech. Ordinance ***"the maximum span period for the full time M.Tech. Programme shall be four years and the part-time programme shall be five years."***

Decision : The Academic Council considered and decided to give one special chance for one odd and one even semester to the above three students to complete their pending courses and M.Tech. Major Project-II.

Agenda 38.7 : To consider and approve the 11 M. Tech. courses to be kept in abeyance for the Academic year 2023-24.

It was submitted to the Academic Council that as approved in 32nd Academic Council meeting vide Agenda Item no. 32.13, the following 11 M. Tech courses kept in abeyance due to admissions less than 1/3rd of the total intake for the Academic Year 2023-24. The details are as under:

S. No.	Course Name	Department
1.	M. Tech. (Polymer Technology)	Applied Chemistry
2.	M. Tech. (Material Science & Technology)	Applied Physics
3.	M. Tech. (Industrial Biotechnology)	Biotechnology
4.	M. Tech. (Hyd. & Water Resource Engg.)	Civil Engineering
5.	M. Tech. (Geoinformatics)	Multidisciplinary Centre for Geoinformatics
6.	M. Tech (Power System)	Electrical Engineering
7.	M. Tech. (Microwave and Optical Communication)	Electronics & Comm. Engg.
8.	M. Tech. (Environmental Engg.)	Environmental Engineering
9.	M. Tech. (Production Engg.)	Mechanical Engineering
10.	M. Tech. (Thermal Engg.)	
11.	M. Tech. (Energy Systems and Management)	

Decision : The Academic Council considered and recommended the matter to the Board of Management for approval of the above mentioned 11 M.Tech. courses to be kept in abeyance for the Academic year 2023-24.



Agenda 38.8 : Re-composition of Board of Studies [BoS] of all Academic Departments of the University.

It was submitted to the Academic Council that there is an urgent need of reframing the composition of the BoS. It is quite relevant to mention herein that the present composition of BoS as defined in the Ordinance 1(B) 2018 at Page No-13 of the same. However, it is reproduced as hereunder:

The composition of BoS of the Department(S)/ School(s) shall as follows:

- ***Head of the Department/ School (Chairperson),***
- ***All Professors of the Department/ School (Members),***
- ***Two Experts appointed by the Vice-Chancellor (Members), and***
- ***Two Associate Professors of the Department/ School by rotation (Members) for a period of two years.***
- ***In the absence of adequate faculty in the Department/ School, Vice-Chancellor can constitute the BoS with faculty from the other relevant disciplines.***

In the above-mentioned detailed composition of BoS as such there is no mention or representation of Assistant Professors of the Department(s) concerned. It is pertinent to mention herein that in most of the Departments of DTU numerical strength of Assistant Professors is almost two-third of the total strength of the faculty in the Department, for example in ECED itself out of 45 total faculty members 31 are Assistant Professors. Moreover, in most of the technical and other Institutions/ Universities there is a practice of providing equal representation to Assistant Professors as well. Thus, thereby they ensure fairly good representation of Assistant Professors of the Department(s) concerned in the composition of the BoS.

So, keeping in view the above-mentioned facts, it was proposed that in the existing composition of the BoS the following may be included:

- ***Two Assistant Professors of the Department/ School by rotation (Members) for a period of two years, and***
- ***In case of non-availability of Associate Professor(s) in the Department/ School, the senior most Assistant Professor(s) in the Department/ School will be the member for two years or till the joining of Associate Professor whichever is earlier***
- ***At least one expert from Industry***
- ***At least one alumni***

Decision : The Academic Council considered, approved the new composition of Board of Studies (BoS) and recommended to the Board of Management for approval of the new composition of (BoS) for all Academic Departments.



Agenda 38.9 : Introduction of five-year integrated PG programs in various departments of DTU w.e.f. academic year 2024-25 as per NEP 2020.

National Education Policy (NEP) announced in 2020 envisions a student centric approach to address the growing youth aspirations of a resurgent India. Multidisciplinary education, multiple entry and exit system, integration with vocational education and ensuring mobility between streams and institutions are some of the policy goals of NEP 2020. To achieve these goals, UGC has come out with various policy documents which include National Higher Education Qualifications Framework (NHEQF) and National Credit Framework (NCrF), Curriculum and Credit Framework for Undergraduate Programmes etc. Various Institutions across India have already started adopting and implementing these guidelines as part of their effort to fulfil the objectives of NEP 2020.

Delhi Technological University is one of the leading Institutions of the Country and is currently offering UG, PG, and PhD programs. In line with the spirit of NEP 2020, it is proposed to initiate some more courses to offer multidisciplinary education with multiple entry and exit schemes at the University.

The University PG Section is proposing to introduce five-year integrated PG programs in the following Departments –

Departments/Centers Offering Core Programs

- (a) Department of Applied Mathematics – *Integrated M.Sc. in Mathematics*
- (b) Department of Applied Physics – *Integrated M.Sc. in Physics*
- (c) Department of Applied Chemistry – *Integrated M.Sc. in Chemistry*
- (d) Department of Humanities – *Integrated M.Sc. in Economics*

Departments/Centers Offering Multidisciplinary/Interdisciplinary Programs

- (a) Department of Biotechnology – *Integrated M.Sc. in Biotechnology*
- (b) Multidisciplinary Centre for Geoinformatics – *Integrated M.Sc. in Geospatial Science*

It was proposed to commence these programs w.e.f academic year 2024-25. The schemes, the syllabus and all other requirements shall be in place well in time. However, in order to make prospective students aware of these programs, there is a requirement to initiate publicity. Besides there is also a requirement to do necessary liaison with NTA and other stake holders. Therefore, in order to be ready in time, while scheme and syllabus are being finalized, there is a requirement of seeking approval of the Academic Council to proceed with publicity and other necessary communications with stake holders.

Decision : The Academic Council considered, approved and recommended the proposal to the Board of Management for approval of introduction of five-year Integrated M.Sc. programs in Applied Mathematics, Applied Physics, Applied Chemistry, Humanities and Biotechnology Departments of DTU w.e.f. Academic Year 2024-25.

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Agenda 38.10 : Broad Guidelines for Twinning, Dual Degree and Joint Degree programs to be offered by the Delhi Technological University and foreign higher educational institutions.

It was submitted to the Academic Council that the Broad Guidelines for twinning, dual degree, and joint degree programs in line with the UGC regulations for the twinning programs, dual degrees and joint degrees to be offered by the Delhi Technological University, and foreign higher educational institutions were placed in 38th Academic Council meeting of DTU for consideration. These broad guidelines are proposed in accordance with the UGC regulations (UGC Notification F. No. 4-1/ 2022/ IC dated 2nd May 2022) for such programs. These guidelines shall serve as the basic template for all such programs to be initiated and shall be extended on a case-by-case basis (and subsequently approved by the Competent Authority) keeping in mind the procedures and guidelines of the individual partner institution for these degrees.

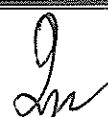
A Committee was constituted with the following members, to prepare the guidelines, in the line of relevant UGC mandate:

(1)	Prof. Pravir Kumar, Dean, International Affairs	Chairman
(2)	Prof. Pragati Kumar, Dean, IRD	Member
(3)	Prof. Rajeshwari Pandey, Dean, Academic UG	Member
(4)	Prof. Rinku Sharma, Dean, Academic PG	Member
(5)	Prof. S. Indu, Dean, Students Welfare	Member
(6)	Prof. M. Rangnath, HoD, Design	Member
(7)	Prof. Amit Mookerjee, HoD, USME	Member
(8)	Dr. Kamal Pathak, Controller of Examination	Member
(9)	Dr. Yashna Sharma, OIA Coordinator and	Member Secretary

The guidelines are as under:

1. ELIGIBILITY OF THE FOREIGN HIGHER EDUCATIONAL (PARTNER) INSTITUTION

As per the UGC regulation, any foreign Higher Educational Institution duly established or incorporated or recognised in a foreign country and offering academic and research programmes at the undergraduate and/ or higher levels, shall be eligible to be a partner for DTU for the twinning program, dual degree and joint degree program if it figures in the top 1000 of the Times Higher Education or QS World University ranking at the time of signing the MoU for twinning/ dual/ joint degree programs.



2. TYPES OF DEGREES AND PROGRAM NOMENCLATURE

(a) Twinning Program:

- (i) Twinning Programme shall be a collaborative arrangement between DTU and the foreign higher educational institution whereby students enrolled with DTU may undertake their programme of study partly at DTU and partly in the Foreign Higher Educational Institution
- (ii) The degree for such programs shall be awarded by DTU only, and may mention in the remarks that certain courses were undertaken at a foreign higher educational institution.
- (iii) The transcripts shall be issued separately by DTU and the foreign higher institution for the course work undertaken by the student at both institutions.

(b) Dual Degree Program

- (i) Dual Degree Programme shall be a programme jointly designed and offered by DTU and the Foreign Higher Educational Institutions in the same disciplines/ subject areas and in the same level. The degrees for such a programme shall be conferred by DTU and the Foreign Higher Educational Institutions, separately and simultaneously, upon completion of degree requirements of both the institutions.
- (ii) Students must meet the admission requirements of both institutions and need to complete the degree requirements of their home institution, as well as the partner institution according to the stipulated time periods of the program duration to be spent in both institutions as specified in the agreement for the dual degree.
- (iii) The transcripts shall be issued separately by DTU and the foreign higher institution for the course work undertaken by the student at both institutions.
- (iv) The duration of the dual degree program will be as per norms for the duration of the degree programs specified in UGC Act, 1956.

(c) Joint Degree Program:

- (i) For a Joint Degree programme, the curriculum shall be designed jointly by DTU and the Foreign Higher Educational Institutions and, upon completion of the programme, the Degree is awarded by DTU and the collaborating Foreign Higher Educational Institution with a single Certificate.
- (ii) The transcripts shall be issued separately by DTU and the foreign higher institution for the course work undertaken by the student at both institutions.
- (iii) Students must meet the admission requirements of both institutions and need to complete the degree requirements of their home institution, as well as the partner institution according to the stipulated



time periods of the program duration to be spent in both institutions as specified in the agreement for the joint degree.

- (iv) The students will receive one joint degree from their home institution which shall state that the program has been completed jointly with the host institution. The degree shall bear the logos and signatures of both participating universities (i.e., DTU and the partner institution)

3. ADMISSION CRITERION AND ELIGIBILITY

Admission Criterion

Level of Study	Twinning Program	Joint Degree Program	Dual Degree Program
UG	Students must satisfy the admission requirements of DTU at the time of admission.	Students must satisfy the admission requirements of DTU at the time of admission.	Prospective students must meet the admission requirements of both DTU and Foreign Higher Educational Institutions and shall apply to and be admitted separately to both DTU and the foreign higher educational institution
PG			
Ph.D		<ol style="list-style-type: none"> 1. Students must satisfy the admission requirements of DTU at the time of admission. 2. The students must have one supervisor at DTU and one supervisor at the foreign higher educational institution. 	<ol style="list-style-type: none"> 1. Prospective students must meet the admission requirements of both DTU and Foreign Higher Educational Institutions and shall apply to and be admitted separately to both DTU and the foreign higher educational institution. 2. The students must have one supervisor at DTU and one supervisor at the foreign higher educational institution.

ADDITIONAL ELIGIBILITY CRITERION

- (a) For dual and joint degree programs, a student is expected to make a choice for these programs in the first semester of their stay at DTU. However, the student will be allowed to pursue the dual degree/ joint degree programs, if and only if the following criterion are satisfied.
- (b) For twinning programs, the student is expected to make a choice for pursuing such programs two semester in advance. The student will be allowed to pursue the twinning program, if and only if the following criterion are satisfied at the time of application.

Level of Study	Twinning Program	Dual Degree	Joint Degree
UG PG	(i) The eligibility criterion shall be decided as per the terms of the agreement (MoU) signed between DTU and the partner institution. This shall be done on a case-by-case basis after approval by the Competent Authority. (ii) For the same, the CGPA at the end of semester X-1 may be taken into account. (iii) The student should not have any history of disciplinary action initiated against him/ her at DTU.		
Ph.D	(i) Upon selection of a supervisor at DTU and at the partner institution, the student may proceed for Ph.D. However, the student must spend at least one semester in the foreign partner institution. (ii) The student should not have any history of disciplinary action initiated against him/ her at DTU.		

X is the number of semesters spent at DTU and Y is the number of semesters spent at the foreign higher educational institution. For example, in a joint degree program for a B. Tech program, where the student spends 3 years at DTU, and 1 year at the foreign institution, X shall be 6, and Y shall be 2.

4. CURRICULUM DESIGN AND CREDITS TO BE EARNED

Twinning Programs

- (a) For a twinning program, credits earned by the student from the Foreign Higher Educational Institution shall not exceed 30 percent of the total credits for the program.
- (b) The students shall select an appropriate number of courses to be pursued under such twinning programs at the time of application for such programs. The courses shall be selected from the regular curriculum/ courses being offered by the foreign educational institution.
- (c) DTU shall ensure that the credits earned by the students from the Foreign Higher Educational Institution shall not be from overlapping course contents/ curriculum. At the time of applying for the twinning program, the student shall submit his selection of courses at the foreign partner institution to a Committee (chaired by the Dean (IA)). The Committee shall make a recommendation to the Competent Authority as to whether the selection of courses by the student is appropriate. On approval from the Competent Authority, the student may be allowed to pursue the selected courses at the foreign higher educational institution.

Joint Degree Programs and Dual Degree Programs

- (a) For a joint/ dual degree program, the student must earn at least 30 percent of the total credits from each of the Indian and Foreign Higher Educational Institutions
- (b) The curriculum for the joint/ dual degree programs shall be prepared jointly by DTU and the foreign higher educational institution at the time of signing the MoU for the initiation of such joint degree programs. The core courses and electives in such programs shall be clearly specified as an addendum to the MoU, separately for each joint degree being offered.
- (c) DTU shall ensure that the credits earned by the students from the Foreign Higher Educational Institution shall not be from overlapping course contents/ curriculum.
- (d) In case of a doctoral degree programme, students must have a supervisor at both DTU and the foreign higher educational institution. The student shall spend a minimum of one semester in each of the collaborating institutions during the study programme. However, the student shall submit a single thesis adhering to a framework jointly devised by the participating institutions.

5. PREPARATION OF MERIT LIST FOR STUDENTS OPTING FOR TWINNING/ JOINT/ DUAL DEGREES

- (a) A common merit list shall be prepared at the time of admission for students who are opting/ non-opting for dual and joint degree programs. The students will be given a choice to opt for such joint/ dual degree programs at the beginning of the program (limited to the maximum number of students as specified by the MoU between DTU and the partner institution).
- (b) In case there are more number of students applying for a dual/ joint degree program than the maximum number of such students allowed under the MoU/ agreement, the merit list at the time of admission may serve as the primary parameter for selection of the students for such programs.
- (c) In case of a twinning program, the students will be given a choice for opt for such programs at a specified time during their degrees after the completion of the requisite number of credits at DTU. In case there are a greater number of students applying for a twinning degree program than the maximum number of such students allowed under the MoU/ agreement, the CGPA at the time of application for such programs may serve as the primary parameter for selection of the students for such programs.



6. NUMBER OF STUDENTS UNDER AGREEMENT

- (a) The number of students to be exchanged between the partner institutions may be decided at the time of signing the MoU for such twinning, joint and dual degree programs. Both institutions shall agree on a lower and upper bound for the number of students to be allowed for these programs. There shall also be appropriate provisions in the MoU to change these numbers at the initiation of every academic year.
- (b) For the twinning programs, the number of students will be decided by the host university at the beginning of each academic year. These numbers may be provided to DTU as a call for nomination at an appropriate time of the year.

7. CREDIT TRANSFER AND EQUIVALENCE

DTU and the foreign partner institution shall both accept the credits earned by the student at the foreign university/ host university. For the credit equivalence to be established at DTU, a special Committee may be constituted by the Hon'ble Vice Chancellor of DTU (consisting of the Dean (IA), Dean (UG), Dean (PG) and HoD of the concerned department).

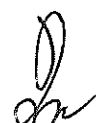
8. FINANCIAL OBLIGATIONS

- (a) The financial obligations of partner Universities shall be negotiated on a case-by-case basis with the Universities engaging in MoUs for twinning/ joint/ dual degree programs. At the time of signing the MoU, the Office of International Affairs will suggest a two-way waiving off from the tuition fee by the foreign partner institution and DTU for the duration of the joint program. This would imply that the students will continue paying the fee to their respective home institutions even when they are studying at the host university. The housing and food costs will be borne by the students and may be supported by scholarships (if awarded) offered by the partner institutions.
- (b) As per the UGC guidelines, wherever foreign exchange is involved, the Higher Educational Institutions (Indian and foreign), shall abide by and comply with the relevant regulations, norms, notifications, and instructions issued by the Reserve Bank of India and Government of India from time to time.

9. EXIT AND TRANSFER PATHWAYS

(a) Twinning Programs

In case a student is not able to earn the minimum number of required credits at the foreign higher educational institute due to some unavoidable reasons, he/ she earn the required number of credits at the home university (DTU) in their remaining time of their degree program. However, the transcripts of the semester when the student was studying at the foreign higher educational



institutions shall exhibit the actual passed/ failed status of the student in the subjects undertaken at the host university.

(b) Joint and Dual Degree Programs

In case a student, after joining the host university, is not able to complete the assigned credits at the host university in the stipulated period of time or is not able to bear the fees and other financial charges at the foreign country, the student may be allowed to complete the remaining credits at the home university (DTU). These decisions may be taken on a case-by-case basis and will be approved by the Competent Authority at DTU. In such cases, the student may be allowed to step out of the joint degree and be allowed to continue with the sole degree from DTU.

In the case of a dual degree program, if the student is not able to earn the requisite number of credits in the stipulated period of time at the host university, or is not able to bear the cost of the degree at the host university during his stay abroad, or is not able to go to the host university due to lack of finances, the student may be allowed to step out of the dual degree program and may be allowed to earn the sole degree from DTU on completion of the required number of credits.

(c) Transfer from a Twinning Program to a Joint/ Dual Degree

At the time of signing of the MoU between DTU and the foreign host university, options for the change of the status of the student registration from twinning program to joint/ dual degree programs by earning extra number of credits by the student may also be explored. The timelines and the required number of credits for such transfers may be pre-decided and frozen at the time of signing the MoU.

10. SIGNING OF MoUs FOR TWINNING, JOINT AND DUAL DEGREE PROGRAMS

- (a) As per the UGC guidelines, DTU and the foreign higher educational institution must sign a written memorandum of understanding (MoU) before initiating the twinning programs, and the dual/ joint degree programs.
- (b) These MoUs shall be signed on a case-by-case basis (and subsequently approved by the Competent Authority) keeping in mind the procedures and guidelines of the individual partner institution for these degrees.
- (c) The MoU/ Agreement for collaboration shall include provisions related to student obligations, fees and other financial arrangements, intellectual property rights, student's attendance patterns, duration of stay for the study programme in both the Higher Educational



Institutions, joint supervision arrangements, language of thesis and examinations, admission and evaluation process and graduation procedures, wherever applicable.

Decision : The Academic Council considered and recommended the broad Guidelines for starting Twinning, Dual Degree and Joint Degree programs to be offered by the Delhi Technological University in collaboration with foreign higher educational institutions to the Board of Management for approval.

Agenda 38.11 : Revision of fee structure of M3 mode for the admission of international students for Academic Year 2024-25.

It was submitted to the Academic Council that admission of international students are largely through mode M1 (DASA), M2 (ICCR, SII). DTU has another mode of admission M3 that is under the direct control of university and named as Admission through direct portal which is largely vacant despite the availability of many seats. This is due to complete non-awareness and lacking in the publicity of M3 mode. Although, there are lot many possibilities to strengthen the admission in the M3 mode which under the direct control of DTU. In this regard, the Office of International Affairs DTU would like to strengthen the M3 Mode of admission through various schemes for instance, M3 (a) mode, which is from the embassy sponsored, M2 (b) Mode, which is through SAT and TOFIL/IELTS Score (not less than 60 percentile) and M3 (c) is based on class 12th and JEE Score (not less than 60 percentile). In order to strengthen the M3 mode of admissions, revision of the fee structure and other attractive policies must be implemented to increase in the admissions foreign students. DTU is an elite institution of the country and demand of many branches are quite high and thus M3 Mode will boost up the admission procedure of international students and could be a great source of revenue generation. In this regard, competent authority has constituted a committee to revise the fee structure with following members:

A meeting of the members of the designated committee was held on 20.02.2024 at Office of Dean UG at 2.30 pm to discuss revision in Fee structure of M3 mode admission.

Following members have attended the meeting:

- | | | |
|--------|--|------------------|
| (i) | Prof. Pravir Kumar (Dean-IA) | Chairman |
| (ii) | Prof. Rajeshwari Pandey (Dean-Acad UG) | Member |
| (iii) | Prof. Rinku Sharma ((Dean-Acad PG) | Member |
| (iv) | Prof. Nirender Dev, (COF) | Member |
| (v) | Sh. Mahesh Kumar, DCA | Member |
| (vi) | Dr Richa Srivastava, Asst. Prof., App Chem | Member |
| (vii) | Ms. Sumedha Seniary, Asst. Prof. | Member |
| (viii) | Mr. Piyush Vaish, KNM | Member |
| (ix) | Dr. Ritu Raj, Asst. Prof., Civil Engg | Member Secretary |



The Dean (IA) apprised the committee about following points in r/o international admission:

- (i) The university offers admission to the international students (NRI/OCI/PIO/FN) with a supernumerary seat intake of 15% of existing regular seats in all UG and PG programs offered by the University.
- (ii) There are three modes of admission under international admissions namely M1 (DASA), M2 (ICCR) and M3 (Direct mode) with a distribution of 5%, 3% and 7% seat intake respectively under these modes.
- (iii) The university needs to strengthen the admission of international students through this mode to enhance diversity of student strength as the seat intake is maximum under M3 mode which is completely governed by the regulations of DTU.
- (iv) It is seen that the seats under M3 mode are largely vacant in past year. Based on many interactions and market survey it was observed that the main reason behind almost negligible admission in this mode is unawareness about direct mode of admission among the stakeholders.

Based on the above information the committee strongly recommended following:

- i. The M3 mode seats should be publicized more vividly as demand of DTU seats are fairly high amongst FNs. The committee has unanimously decided to enrich this mode of admissions through wide publicity and also a revision in fee structure at par to DASA and other leading institutions of the country.
- ii. The committee also recommended a revised fee structure for all international students to be admitted in various programs through (DTU Direct portal) Mode **M3(a) Embassies Sponsored; M3(b) SAT/ACT (60 percentile) and IELTS/TOFEL (60 percentile); (c) JEE score and 12th Marks (not less than 60% in PCM)** for B.Tech Admission (2024-2025) for NRI/OCI/PIO/FN irrespective nationality of the applicant.



Program	Existing Fee		Proposed	
	Fee (in USD)*	Non-Government Funds (in USD)*	Fee (in USD)*	Non-Government Funds (in USD)*
B.Tech, B.Des	* 5000 for Non-SAARC & Non-ASEAN * 2500 For SAARC & ASEAN	1100	8000	1100
BBA, BA(H) Eco	* 5000 for Non-SAARC & Non-ASEAN * 2500 For SAARC & ASEAN	1100	6000	1100
MA-Eco	-----	-----	5000	1100
M.Sc, M.Tech, MBA, M.Des	* 5000 for Non-SAARC & Non-ASEAN * 2500 For SAARC & ASEAN	800	5000	1100
PhD	2500 for 1 st year and 1000 for subsequent years		5000	1100

***Fee is non-refundable**

The Finance Committee in its 32nd meeting held on 05.03.2024 considered and recommended the agenda to the Academic Council and Board of Management for its approval.

Decision : The Academic Council considered and recommended the revised fee structure for M3 mode of admission of international students for Academic Year 2024-25 onwards to the Board of Management for approval.

Agenda 38.12 : Revision in the Seat Matrix of International admission from M1, M2 and M3 mode and other moderation in brochure for academic year 2024-25.

For the admission of international students, a committee was constituted to revise seat matrix in M1, M2 and M3 mode of admission as per the rule of 15% supernumerary of all seats at UG and PG levels and also decide the eligibility criteria for admission through M3 mode and moderation in admission brochure for academic year 2024-25.

A meeting of the committee members was held on 20.02.2024 in the Office of Dean Academic (UG) at 2.30 pm to discuss revision of seat matrix for international student's admission through M1, M2 and M3 modes as well as eligibility criteria for admission to UG and PG programs through M3 mode.

Following members attended the meeting:

1. Prof. Pravir Kumar (Dean-IA)	Chairman
2. Prof. Rajeshwari Pandey (Dean-Acad UG)	Member
3. Prof. Rinku Sharma ((Dean-Acad PG)	Member
4. Sh. Mahesh Kumar, DCA	Member
5. Dr Richa Srivastava, Asst. Prof., AC	Member
6. Dr. Ritu Raj, Asst. Prof., CE	Member
7. Ms. Sumedha Seniary, Asst. Prof., AM	Member
8. Mr. Piyush Vaish, KNM	Member

The following points were discussed:

1. As per the Minutes of 16th Meeting of Academic Council, DTU held on 26.5.2017, and subsequent approval in 28th meeting of BOM held on 20.07.2018, 15% of total seats have been approved on supernumerary basis for Foreign Nationals/Persons of Indian Origin/ Indian Nationals studying abroad/ Overseas citizens of India in UG and PG programmes.

The existing seats under FNs quota as per the approved intake for various UG and PG programmes at DTU for academic year 2023-24 is as follows:

S.No.	Programme	Existing seats under FNs quota as per the approved intake (UG)	Approved intake (UG)	15% of Approved intake for 2024-25 (Revised as per current intake)
1	B.Tech	380	2515 (JAC)+10 (PMSSS) = 2525	380
2	B.Des.	18	123	18
3	BBA	18	182	27
4	BA Eco	18	182	27
	Total UG seats	434	3012	452

S.No.	Program	Existing seats under FNs quota as per the approved intake (PG)	Approved intake (PG)	15% of Approved intake for 2024-25 (Revised as per current intake)
1	M.Tech	100	658	100
2	MBA	39	270+31 (IEV)+40 (B Analytics)	51
3	M.Sc.	16	240	36
4	MA Eco*	-----	60	09
5	M.Des.	6	75	11
	Total PG seats	161	1374	207

2. Academic eligibility criteria for admission to UG Programmes for Foreign national candidates through DTU Direct portal (Mode M3) was discussed and decided as:

- I. Essential qualification for M3: 60% aggregate marks or equivalent marks in all subjects of qualifying examination i.e. 10 +2 or equivalent from any system of education as recognized by the Association of Indian Universities (AIU).
- II. Additional requirement/qualifications (UG) for M3 (a) & M3 (b)
 - a. Mandatory qualifying Scholastic Aptitude test (SAT)/American College Testing (ACT) in Mathematics, Physics/Science, and another core subject with minimum 60 percentiles.

- b. The candidate should be in possession of valid TOEFL/IELTS score not less than 60 percentiles.
- c. Merit list shall be prepared on the aggregate SAT and/or ACT score as per concordance tables obtained in Mathematics, Physics, and Chemistry or core science subjects. In case of similar score in SAT and/ or ACT score is observed, then preference is given to higher marks obtained in Mathematics and Physics. In case marks obtained in Mathematics & Physics are also same then preference is given to the candidate with older age.

III. Additional requirement/qualifications (UG) for M3 (c)

- a. For admission to B.Tech programme
 - i. Applicant should have 60 % marks or 6.00 CGPA on 10 points grade or equivalent grades in aggregate for all subjects of qualifying examination i.e. Senior Secondary [10+2] or equivalent from any system of education as recognized by the Association of Indian Universities (AIU) with: Mathematics and Physics as compulsory subjects and any one of these as optional subjects.
 - Chemistry
 - Bio-Technology
 - Computer Science
 - Biology
 - ii. Mandatory qualifying JEE (Mains) score in Mathematics, Physics, and Chemistry with minimum 60 percentiles.
 - iii. Merit list shall be prepared on the basis of JEE Mains Score.
- b. For admission to BBA programme
 - i. Applicant should have 60 % marks or 6.00 CGPA on 10 points grade in aggregate for all subjects of qualifying examination i.e. Senior Secondary [10+2] or equivalent from any system of education as recognized by the Association of Indian Universities (AIU).
 - ii. English as compulsory subject.
- c. For admission to BA (Hons.)-Economics programme
 - i. Applicant should have 60 % marks or 6.00 CGPA on 10 points grade or equivalent grades in aggregate for all subjects of qualifying examination i.e. Senior Secondary [10+2] or equivalent from any system of education as recognized by the Association of Indian Universities (AIU).
 - ii. Mathematics as compulsory subject.
- d. For admission to B.Des programme
 - i. Applicant should have 60 % marks or 6.00 CGPA on 10 points grade or equivalent grades in aggregate for all subjects of qualifying examination i.e. Senior Secondary [10+2] or equivalent from any system of education as recognized by the Association of Indian Universities (AIU).



- IV. Any other requirement prescribed by the University from time to time.
3. Academic eligibility criteria for admission to PG Programme for Foreign national candidates through DTU Direct portal (Mode M3) was discussed and decided as:
- I. Essential Academic Eligibility for Postgraduate Program in Engineering and Management through M3 mode:
 - i. Applicants should have 60% aggregate marks or 6.00 CGPA on a 10-point grade or equivalent grades in aggregates in their qualifying degree recognized as equivalent by the AIU/UGC/AICTE/other statutory bodies as applicable.
 - ii. For M.Tech programme : Applicant must have passed the qualifying examination i.e. four/five-year undergraduate program in Engineering/Technology or equivalent in relevant disciplines pertaining to that respective M. Tech program of application.
 - iii. For MBA programme : An appropriate UG degree from any stream of education with valid CAT/MAT score.
 - iv. For MA(Economics) programme : An appropriate UG degree in Economics/Statistics/Mathematics.
 - v. For M.Des programme : An appropriate UG degree from any stream of education.
 - vi. For M.Sc programme : Following will be criteria as per relevant discipline.
 - a. Mathematics: BA/B.Sc. (Gen or Hons.) with Mathematics as one of the main subjects.
 - b. Physics: B.Sc. (Gen or Hons) with Physics as one of main subject.
 - c. Biotechnology: B.Sc. (Gen or Hons) with Biology / Biotechnology as one of main subject.
 - d. Chemistry: B.Sc/ (Gen or Hons) with Chemistry as one of the main subjects.
 - II. Additional requirements/ qualifications:
 - i. The candidate should be in possession of valid TOEFL/IELTS score not less than 60 percentiles.
 - ii. Admission shall be done on the basis of their aggregate score in the qualifying degree.
 - III. Any other requirement prescribed by the University from time to time.
4. Academic eligibility criteria for admission of PhD Programme for Foreign national candidates through DTU Direct portal (Mode M3) was discussed and decided as:
- I. Essential Academic Eligibility for Ph.D Programme through M3 mode:
 - i. Applicants should have 60% aggregate marks or 6.00 CGPA on a 10-point grade or equivalent grades in aggregates in their qualifying degree recognized as equivalent by the AIU/UGC/AICTE/other statutory bodies as applicable.



- ii. The minimum entry qualification shall be a Master's degree in Engineering/Technology/Science/Economics/Humanities/Design/Management or any other qualification recognized by University. In exceptional case, candidates having Bachelor in Engineering / Technology degree with minimum of 75% marks in aggregate or equivalent CGPA will also be considered for admission.
 - iii. Refer to annexure pages 45 to 50 in the agenda note for respective discipline specific details.
 - iv. Any other requirement prescribed by the University from time to time.
5. It is also decided to mention in the admission brochure that the fee will be non-refundable.

Decision : The Academic Council considered and recommended the proposal to the Board of Management for approval of the revised Seat Matrix for International admission in M1, M2 and M3 modes and related admission criterions for academic year 2024-25.



Agenda 38.13 : Starting a certificate course titled as “Certificate Course for Yoga & Wellness” by the Centre for Extension and Field Outreach, DTU.

The Yoga is playing a very vital role in everybody’s life for living healthy, peaceful and successful life. Many institute and universities has started elective/ core courses in Yoga & Wellness for their students, which is in line with NEP-2020 as well. This will create a huge demand of **Yoga & Wellness Instructor**.

In this context and keeping in view of future prospect, the Centre for Extension and Field Outreach, DTU proposes to start a “**Certificate Course for Yoga & Wellness**”, which is also in line with PMKVY 4.0 to create skill and employability among youth. The details of the proposal are given below:

The detailed course content, method of class conduction and evaluation presented below:

Subject Code	
Subject Name	Certificate Course for Yoga & Wellness
Contact Hours	450 hours during course of 6 months (60 hrs theory, 20 hrs tutorial and 370 hrs practical)
L T P	02 01 14
Examination	1 hr. Theory
Duration	2 hrs. Practical
Credit	NA
Duration	6 months duration
Subject Area	Yoga & Wellness
Pre-requisite	NIL
Objective	To develop basic knowledge of Yoga & Wellness so that candidate will be able to I. Conduct yoga session for participant II. Conduct cleansing techniques like empty stomach, cleansing the bowel III. Explain Human anatomy and physiology IV. Demonstrate Importance of maintaining self-hygiene V. Give concept of health and wellness VI. Explain principles and practices of Jnana yoga, Bhakti yoga and Karma yoga
Qualification	Minimum 12 th pass

There will be continuous evaluation and final evaluation will be done at the end of duration of certificate course (after six months).

Salient features of course:

1. Course Content and duration

(a). The certificate courses are offered for skill enhancement which demands more of hands on than merely theoretical aspects. Therefore, this course should consist of two parts (i) Theory and (ii) Practical with higher weightage to practical components both in terms of contact hours and evaluation components.

(b) The **Certificate Course for Yoga & Wellness** is proposed to have course duration of 450 hrs spanned in 6 months with 25% and 75% weightage to theory and practical classes respectively. The course content for **Certificate Course in Yoga & Wellness** is placed below:

(c) For certificate course in Yoga and Wellness the course coordinator shall be the coordinator (OEA) from DTU who shall be appointed by Dean (OEA) Dean (OEA) may further nominate a course Co-Coordinator, if required.

2. Examination and Evaluation Scheme

A registered candidate for Certificate Course for **Yoga & Wellness** shall be evaluated for his/ her performance through classwork sessional (CWS), Practical Sessional (PRS) and end term examination (ETE). The distribution of weightage/ marks assigned among various components is as given below

Practical Sessional (PRS)	=	30 marks
Class Work Sessional (CWS)	=	10 marks
End Term Examination (ETE)	=	60 marks

After completion of the course evaluation shall be done on the basis of exam conducted. Question paper and evaluation for the exam shall be done by concerned faculty/ instructor

3. Grading and Result Declaration.

A theory exam will be conducted for 15 marks and practical exam for 45 marks making total marks as 60. Remaining 40 marks will be based on sessional marks as proposed above. The grade to the candidate will be awarded based on the total marks obtained. The absolute grading system will be adopted for the certificate course.



The details of the letter grade corresponding to Total Marks obtained are given below:

Grade	Total Marks (%)
B	$40 \leq X < 50 \%$
B+	$50 \leq X < 60 \%$
A	$60 \leq X < 70 \%$
A+	$70 \leq X < 80 \%$
O	$X \geq 80\%$

The lowest letter grade to be assigned will be 'B' whereas the highest letter grade will be 'O'. No certificate will be awarded below 'B' letter grade.

If any candidate does not qualify in the examination of CC/ any other such certificate course, he/ she shall be given another opportunity to re-appear in the examination at the venue to be decided by the Dean (OEA).

The competent authority is requested for giving approval for the above proposed agenda in principle. After approval from Academic Council, it shall be implemented for the students admitted in academic session 2021-22 onwards. Amendments, if any, shall be carried out accordingly.

It was proposed to start the certificate course titled as "**Certificate Course for Yoga & Wellness**" of 6 months' duration (total contact hours 450) to the candidates registered for the certificate course from the AY 2024-25.

The Academic Council considered the proposal for starting a certificate course titled as "**Certificate Course for Yoga & Wellness**" of 6 months' duration (total contact hours 450) to the candidates registered for the certificate course from the AY 2024-25.

Decision : The Academic Council in principle approved the proposal and recommended to the Board of Management for starting a certificate course titled as "**Certificate Course for Yoga & Wellness**" by the Centre for Extension and Field Outreach, DTU. The Council also constituted a committee of the following faculty members to suggest changes in L-T-P and evaluation scheme and to frame the course in compliance to ABC provisions of the NEP 2020 and also explore for offering jointly this certification program in collaboration with other specialized Yoga Institution in Delhi:



1. Prof. A.K. Trivedi, Civil Engg. Deptt. - Chairperson
2. Prof. Amit Srivastava, Dean (O&EA) - Member
3. Prof. Rajeshwari Pandey, Dean (UG) - Member
4. Dr. Pawan Kumar, Morarji Desai National
Institute of Yoga, New Delhi. - Member
5. Dr. Pravin Kumar, Mechanical Engg. Deptt.- Member

The Academic Council also authorized the Vice Chancellor to accept the recommendations of the committee for starting this certificate program.

Agenda 38.14 : Guidelines for Innovation Research Awards for the Inventors of Delhi Technological University.

Meeting of the Committee constituted to frame the guidelines for incentives for Patents, Product Developments, Technology Transfer, Sponsored Research Projects, Newspaper Editorials, policy benefits to government (Evidence based). The Committee recommended following guidelines for incentives for patent.

Guidelines for Innovation Research Awards for the Inventor of Delhi Technological University

The cash award will be given to inventors in recognition of the grant of their Patent applications in India and/ or IP5. The IP5 refers to a group of the five largest intellectual property offices (IPOs) in the world, that includes the United States Patent and Trademark Office (USPTO), the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), and the State Intellectual Property Office of the People's Republic of China (SIPO, now CNIPA - China National Intellectual Property Administration). The awards are aimed to motivate and recognize individual excellence in innovation. The awards will be given for the patents granted in each year (1st January - 31st December). Inventors from DTU can apply for the award. A notice will be circulated annually and the application form for getting the details of granted patents qualifying the selection criteria will be submitted to the concerned section.

1. Definitions

2. "University" shall mean Delhi Technological University (DTU), Delhi.
3. "Patent application": A document filed in a patent office for grant of exclusive rights pertaining to a novel invention, which has not been assigned a patent grant/ issue number but has an application number.
4. "Patent": A document appearing in a patent office journal having both patent application number and corresponding grant/ issuance number, providing exclusive rights on an invention and its processes to its applicant(s).
5. "Faculty Member of the University": An individual who is a regular faculty member of the University.
6. "University Student": An individual who is registered for any degree in the Delhi Technological University.
7. "Inventor": An individual who is either a faculty member of the university or a university student and his/ her name appears in the list of inventors on either the certificate of Patent Grant or equivalent.
8. "Applicant": The person/ organization who has the right to file the patent application for the protection in the patent office.
9. "Patentee": The person/ organization/ entity to whom a patent is granted.



2. PRIZE MONEY AND SELECTION CRITERIA:

- **Prize Money:** A cash prize of Rs. 1,00,000/- (one lakh) will be awarded along with the certificate of merit.
- **Selection Criteria:**
 - I. The patent application must have been GRANTED by either the Indian patent office or any of the offices of IP5.
 - II. One of the patentees must be 'Delhi Technological University' with a minimum of 20% of financial share in case of mortgage/ commercialization/ monetization of the granted patent.
 - III. The original term of the granted patent must be 20 years from the date of the filing.
 - IV. The followed up inventions (either in the same country or foreign filings) linked to a particular priority date, for which award has already been granted, will only be considered for the certificate and not for the prize money.

REGULATIONS FOR DIVISION & DISTRIBUTION OF AWARD PRIZE

Case 1: Equal distribution of the prize money amongst the inventors from the University.

Case 2: If one (or more) of the inventor(s) is/ are external to the university and university is one of the applicants, then the prize amount will be proportional to the financial share of University ($i \leq \text{Financial_share} \leq 100$) as decided in NoC/ MoU at the time of filing patent application.

Power to remove difficulties: If any difficulty arises in giving effect to the provisions of these guidelines, the Vice Chancellor may make such provisions, not inconsistent with the provisions in these guidelines, as appear to be necessary or expedient for removing the difficulty.

The guidelines shall be implemented for the period of 1st January to 31st December of the respective calendar year.

Decision : The Academic Council considered and recommended the proposal to the Board of Management for approval of Guidelines for Innovation Research Awards for the Inventor of Delhi Technological University.



Agenda 38.15 : Mandatory Publication requirement for Award of Ph. D Degree-Discipline of Design.

As per the clause of the Ph.D. Ordinances, 2019, Section R.15.2 (iii) stating that "For those departments which do not have sufficient number of journals which are SCI/ SCIE/ SSCI indexed, department will prepare and publish a list of journals of high repute for the aforesaid mandatory requirements of two research papers. The list will be recommended by the DRC at the beginning of every academic year for the approval of the Vice Chancellor."

In view of the above a meeting of the Committee was convened and, following thorough deliberations, reached a consensus to propose and advocate for the inclusion of SCOPUS / UGC CARE Journals for the award of Ph.D. degrees in Design.

The Committee proposed the following recommendation for amendment in Ph.D. Ordinance 2019.

S No.	Existing Ph.D Regulation R 15.2(iii)	Proposed Amendments
1.	Candidate has published minimum two research papers in SCI/ SCI expanded/ SSCI indexed journals or has produced the evidence in the form of acceptance letter. Only those publications will be counted toward the minimum condition where the sole authors of the papers are the candidate or candidate and supervisor(s) both.	For discipline of Design and related areas Candidate has published minimum two research Papers in SCI/ SCI expanded/ SSCI indexed journals/ Scopus journals/ University Grants Commission CARE approved refereed journals list or has produced the evidence in the form of acceptance letter. Only those publications will be counted toward the minimum condition where the sole authors of the papers are the candidate or candidate and supervisor(s) both.

Decision : The Academic Council considered but deferred the proposal with a remark that Department of Design must prepare a list of journals in the area of Design as per Section R 15.2(iii) of Ph.D Ordinance and submit for approval of the Council.



Agenda 38.16 : Proposal for Executive Education Programme at Delhi School of Management (DSM), DTU.

In a quest to broaden the scope of DSM in executive education, a Committee was constituted by Head, DSM to draft a proposal for executive education programme. The Committee drafted a proposal after due discussion with stakeholders and experts in the Field/ Industry, and presented in Board of Studies meeting. Based on the approval of Board of Studies of DSM, the proposal for Executive Education Programme was submitted for consideration of Academic Council.

Details were placed at annexure pages 51 to 61 in the Agenda Note.

Decision : The Academic Council considered and recommended the Guidelines for organizing Executive Education Programme at Delhi School of Management (DSM), DTU and recommended for approval of Board of Management.



Agenda 38.17 : Proposal for increase in seats intake of MBA programme in DSM from the current strength of 150 to 180, and revised seat matrix.

In line with DTU strategic plan 2019-2030, based on approval of Board of Studies of DSM, it is proposed that seat intake of MBA program be increased from existing 150 to 180. This will provide increased opportunity to NCT Delhi students for higher education in Delhi itself. More students may be included within NCT Delhi for MBA at DSM, DTU. Since number of seats is being proposed to increase from 150 to 180, the revised seat matrix is prepared as per DTU norms. The proposed seat matrix of MBA Admission for 2024-26 batch is as follows.

Seat Matrix									
Previous Seat Matrix					Revised Seat Matrix				
Category	No of Seats (intake)	PwD	Defence	Total	Category	No of Seats (intake)	PwD	Defence	Total
General (Open)	55	03	03	61	General (Open)	64	04	04	72
EWS	13	01	01	15	EWS	16	01	01	18
OBC	36	02	02	40	OBC	45	02	02	49
SC	21	01	01	23	SC	25	01	01	27
ST	09	01	01	11	ST	12	01	01	14
Total	...	...	...	150	Total	...	...	...	180
Supernumerary seats					Supernumerary seats				
Kashmiri Migrant	01	...	...	...	Kashmiri Migrant	01	...	...	...

Decision : The Academic Council considered and recommended the proposal to the Board of Management for increasing student intake in MBA programme of DSM from the current strength of 150 to 180 with minor revision in seat matrix as above.

Agenda 38.18 : Admission Brochures for the academic year 2024-25 for MBA.

It was submitted to the Academic Council that the Admission Brochure for the academic year 2024-25 for the MBA program in Delhi School of Management has been prepared.

The copy of the admission brochures was tabled in the Academic Council meeting.

Decision : The Academic Council considered and approved the Admission Brochures for MBA program in DSM for the Academic Year 2024-25.

Agenda 38.19 : Syllabi of 4-Yr. UG, B.A. (Hons) Economics II, III and IV year Syllabi.

A meeting of the Board of Studies of USME was held on 29 Feb. 2024, which approved the syllabi for the Four-Year UG programs B.A. (Hons) Economics II, III and IV year and recommended for placing in the upcoming meeting of the Academic Council for consideration.

As per the decision of the 35th Academic Council meeting, the program and credit structure of the proposed Four-Year B.A. (Hons) Economics was accorded approval. In line with the structure, the syllabus for the courses in the first year, i.e. the First and Second semester, along with course objectives, outcomes and contents were also approved in the subsequent Academic Council meeting. Approval was sought from the esteemed Academic Council for the approval of the Second, Third and Fourth Year Syllabi of Four-Year B.A. (Hons) Economics program.

The detailed Syllabus was placed in Agenda Note at Annexure pages 62 to 152.

Decision : The Academic Council considered and approved the syllabi of 4- Year UG, B.A. (Hons) Economics for II , III and IVth year courses.



Agenda 38.20 : Approval of Second Year Semester Syllabus of Four-Year BBA (Hons) program.

It was submitted to the Academic Council that a meeting of the Board of Studies of USME was held on 29 Feb. 2024, which approved the syllabi for the BBA (Hons) II Year Syllabus and recommended for placing in the upcoming meeting of the Academic Council for consideration.

As per the decision of the 35th Academic Council meeting, the program and credit structure of the proposed Four-Year BBA (Hons) was accorded approval. In line with the structure, the syllabus for the courses in the first year, i.e. the First and Second semester, along with course objectives, outcomes, and contents were also approved in the subsequent Academic Council meeting.

The detailed Syllabus is placed in Agenda Note at Annexure pages 153 to 173.

Decision : The Academic Council considered and approved the syllabus of Four-Year BBA (Hons) program for 2nd year courses.



Agenda 38.21 : Matter for ratification.

i. Annual Quality Assurance Report, 2022-23.

It was submitted to the Academic Council that as per mandate of National Assessment and Accreditation Council (NAAC), the University data in the form of 'Annual Quality Assurance Report (AQAR)' is to be compiled and uploaded on NAAC website after the approval of the Statutory body of the University.

Accordingly, the AQAR of the University for the year 2022-23 was prepared. Subsequently, the same has been uploaded on NAAC website after approval of the Vice Chancellor in capacity of Chairman, Academic Council. The approved AQAR is uploaded on the University website.

ii. Revised Regulations for Travel Grant (Students) for PG/ Ph.D. students.

It was submitted that vide notification no. F. 101(21)/ Acad./ B.Tech/ Admin./ 2013-14/ 998/ 1007 dated 04.07.2014 the university notified Regulations for Travel Grant (Students) for B. Tech., M.Tech and Ph.D. students.

However, it was noticed that in the above said notice only M.Tech is mentioned whereas the Travel Grant is also been implement and utilized in other Post Graduates Programmes also i.e M.Des, MBA, M Sc. and MA.

Further, as regards PhD, it was notice that Ph.D finds mention at only introductory para of the regulations, which sometimes causes confusion in processing the matter. Also, there is an element of ambiguity regarding applicability of these regulation among PhD students.

Keeping in view of above, to avoid any ambiguity and or misinterpretation of the regulations, it was appropriate that the above said notice may be revised with the following modifications:

(i) In first para:

UG, PG and Ph.D. students in place of B.Tech, M.Tech and Ph.D students.



- (ii) Para (iv) of 1. Admissibility. The same may be modified as under:

The grant shall be admissible only once in the entire duration of the program an applicant is registered for. An applicant shall not be eligible for grant, if during the entire program he/she had already availed any financial assistance under this scheme or denied of such facility under disciplinary action etc.

- (iii) Point 2. Financial Assistance: The same may be modified as under:

The financial assistance shall be restricted to the total admissible amount sought under the following Heads on reimbursement basis once in the entire duration of the program, subject to the decision of the University.

- (iv) xix. of 3. Procedure for Application. The same may be modified as under:

The student must register for at least one semester after his return. This requirement may be waived on a case-by-case basis. For example, undergraduate students may be allowed to attend conference up to 3 months prior to graduation date. The aim is to distribute the travel Grant equitably to applicants of various Deptt. Ph.D/ UG/ PG programs, boys/ girls, etc. It is hoped that the student receiving the award will voluntarily make a donation to the Institute/ DTU Alumni Association later in his/ her career so that other students might benefit.

The revised Regulations for Travel Grant (Students) for PG/ Ph.D. is placed at **Annexure pages 23 to 27** for ratification by Academic Council, DTU.

iii. Grade Moderation at Section Level for all courses.

It was submitted to the Academic Council that the Competent Authority of the University has approved the Grade Moderation for all UG/ PG courses- "*Grade Moderation shall be done at section level for all programmes/ semesters*". Accordingly, the same has been notified by Result Section vide office order no. F.(05)/ DTU/ Result Section/ Decision-Policy/ 1749 dated 01.11.2023 (**copy placed at Annexure page 28**).



iv. Extension of span period for completion of degree to UG students.

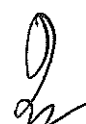
As per Ordinance & Regulations of DTU, the duration of the B.Tech. Program is 4 years i.e. 8 semesters and BBA is 03 years i.e. 6 semesters. The enrolment of a student will stand cancelled at the end of 7/5 years respectively from the initial date.

Few students of old scheme (2009 to 2014) who could not complete their B.Tech./BBA degree in the maximum span period of 7/5 years respectively, have submitted application regarding extension of span period. The details of such students are mentioned as under: -

Sr. No.	Name & Roll No.	Paper Codes	
1	Nitesh Meena (2K13/AE/055)	AM101, EE105 AE202 , AE203	AE211, AE216 AE4127
2.	Subham Saxena (2K15/CEEC/167	-	CEC201, CEC401, CEC411,CEC430
3.	Angustine George (2K15/CEEC/153	CEE106	-
4.	Priyank Bargujar (2K18/BBA/75	BBA101, BBA3053, BBA3056	BBA201, BBA202, GE005a, GE006

Since above mentioned students have already spent 7/5 precious year of life and would leave university without being a graduate. Thereby looking at their future prospects, the Hon'ble VC has considered their cases on mercy ground and has approved extension of time span to complete their undergraduate degree given one more chance of odd and even semester.

Decision : The Academic Council ratified the above actions of the University.



Agenda 38.22 : Matter for Information.

i. Academic Department Grades for the Academic Year 2021-22 and 2022-23.

The Academic and Administrative Audit was conducted by IQAC for all the Academic Department Grades obtained by the Departments for academic year 2021-21 and 2022-23. The same is placed at **Annexure pages 29 & 30.**

ii. Admissions made in Ph.D. program for the summer session August 2023.

It was submitted for information that the following admissions were made for the summer session August 2023. The admission details are as follows:

Department wise Ph.D. Data August 2023		
S. No.	Department	Admitted
1	Applied Chemistry	8
2	Applied Mathematics	10
3	Applied Physics	18
4	Biotechnology	3
5	Civil Engineering	11
6	Computer Science and Engineering	4
7	Design	3
8	Electrical Engineering	9
9	Electronics and Communication Engineering	9
10	Environmental Engineering	5
11	Humanities (Economics)	1
12	Information Technology	3
13	Management-DSM	9
14	Mechanical Engineering	8
15	USME	5
16	MCG	1
17	CESH	2
Total		109
Full Time with DTU fellowship		54
Intake DTU Fellowship		135
UGC/ CSIR		7
Full-time without fellowship		8
Part-Time		28
Part Time (IWP)		7
Foreign National		5
Total		109
Male		67
Female		42

List of admitted students is placed in the Agenda Note at annexure pages 182 to 183.

iii. Admissions made in Ph.D. program for the winter session January 2024.

It was submitted for information that the following admissions were made for the winter session January 2024. The admission details are as follows:

Department wise Ph.D. Data January 2024		
S. No.	Department	Admitted
1	Applied Chemistry	6
2	Applied Mathematics	12
3	Applied Physics	7
4	Biotechnology	3
5	Civil Engineering	4
6	Computer Science and Engineering	7
7	Design	0
8	Electrical Engineering	7
9	Electronics and Communication Engineering	10
10	Environmental Engineering	1
11	Humanities (Economics)	3
12	Information Technology	4
13	Management-DSM	11
14	Mechanical Engineering	8
15	USME	4
16	MCG	3
17	CESH	1
Total		91
Full Time with DTU fellowship		45
UGC/ CSIR		4
Full time without fellowship		17
Part Time		19
IWP		6
Total		91
Intake DTU Fellowship		105
Male		47
Female		44

The list of the admitted students is placed in the Agenda Note at annexure pages 184 to 185.

iv. Admissions made in various PG program for the Academic year 2023-24.

It was submitted for information that the following admissions were made in various PG programmes for the Academic Year 2023-24. The admission details are as follows:

Programme wise PG Admission Data 2023-24				
S. No.	Programme	Sanctioned Intake	No. of Admissions	Foreign National
1.	M. Tech. (14 courses)	380	279	5
2.	M. Tech. Part Time	312	11	0
3.	M. Tech. Sponsored	125	6	0
4.	M. Design	75	35	1
5.	M.Sc.	240	233	0
6.	MBA (DSM)	150	147	3
7.	MBA (Executive)	60	41	0
8.	MBA (USME)	120	115	0
9.	MBA-BA	40	32	0
10.	MBA-IEV	30	11	0
11.	EMBA (DSA)	30	13	0
12.	M.A. (Economics)	60	59	0

The list of the admitted students is placed in Agenda Note at annexure pages 186 to 209.

v. Formal registration to following Ph.D. students upon successful completion of course work and comprehensive examinations and approval of research plan by respective DRCs.

One Hundred Fifty Three (153) students have been registered in Ph.D. program upon successful completion of course work and comprehensive examinations and approval of research Plan by respective DRCs. Department-wise list of the registered Ph.D. students is placed in the Agenda Note at annexure pages 210 to 216.



vi. Cancellation/ Withdrawal of admission from Ph.D. program. The list of the students is given below:

S. No.	Roll No.	Full Name	Department	w.e.f.
1.	2K16/ PHDEE/14	Rakesh Goswami	Electrical Engineering	14.11.2022
2.	2K20/ PHDEE/09	Saravanan D	Electrical Engineering	05.10.2022
3.	2K16/ PHDEE/20	Saquib Faraz	Electrical Engineering	17.11.2022
4.	2K19/ PHDEE/08	Sheeresh Kumar Garg	Electrical Engineering	01.02.2023
5.	2K21/ PHDEE/21	Govind Gupta	Electrical Engineering	01.02.2023
6.	2K21/ PHDME/ 512	Priyanka Singh	Mechanical Engineering	06.03.2023
7.	2K21/PHD/CO/08		Computer Science & Engg.	13.02.2023
8.	2K20/ PHDCE/ 09	Akansha Tiwari	Civil Engineering	21.02.2023
9.	2K22/ PHDCO/ 04	Rahat Naz	Computer Science and Engg.	13.02.2023
10.	23/ PHDBT/ 501	Manisha	Biotechnology	30.01.2024
11.	23/ PHDAM/ 512	Anshul	Applied Mathematics	27.12.2023
12.	23/ PHDIT/ 04	Amandeep Singh	Information Technology	04.08.2023

vii. Admissions for undergraduate programs for the academic Year 2023-24.

Admissions for undergraduate programs for the academic Year 2023-24 have been completed by all designated Admission Committees. Details of students admitted against actual intake is placed in the Agenda Note at annexure pages 217 to 218. Further, internal upgradation of B.Tech students of 2K23 batch has been completed.

Decision : The Council noted the above information (i) to (vii) and advised in r/o (vii) to the Dean Academic (UG) to report name of students admitted along with their roll numbers and upgraded disciplines in the next Academic Council meeting.

Agenda 38.23 : Any other item with the permission of the Chair.

There was no other item.

The meeting ended with vote of thanks to the Chair.


(Prof. Madhusudan Singh)
Registrar

No. F.DTU/Council/AC-Meeting/60/2024/449

Dated : 26/3/2024

Copy to:-

1. Pr. Secretary to Hon'ble Lt. Governor, Delhi 6, Raj Niwas, Civil Lines, Delhi.
2. Prof. Prateek Sharma, Vice Chancellor, DTU
3. Prof. Vasant Matsagar, Civil Engineering Department, Indian Institute of Technology, Hauz Khas, New Delhi 110016
4. Prof. Shashi K. Dhiman, Himachal Pradesh University, Summer Hill, Shimla-171005, Himachal Pradesh
5. Ms. Kirti Seth, CEO, IT-ITeS Sector Skills Council, NASSCOM, Plot No. 7,8,9 & 10, Sector 126, Noida- 201303, Uttar Pradesh
6. All Deans and HODs of the University
7. Prof. Vishal Verma, Electrical Engineering Department
8. Prof. P.K. Suri, Delhi School of Management, DTU
9. Prof. Devendra Kumar, Applied Chemistry Department
10. Controller of Examinations, DTU
11. Dr. Anil Kumar, Associate Professor, Mechanical Engineering Department
12. Dr. Yashna Sharma, Assistant Professor, Elec. & Communication Department
13. Registrar, DTU


(Prof. Madhusudan Singh)
Registrar

ANNEXURE

for

Minutes

38th meeting of

Academic Council

DTU

07-03-2024

Shahbad Daulatpur, Bawana Road, Delhi-110042

GUIDELINES FOR PREPARATION OF THE THESIS

for

Doctor of Philosophy (Ph. D.)/Post Graduation



DELHI TECHNOLOGICAL UNIVERSITY
(Formerly Delhi College of Engineering)

Shahbad Daulatpur, Main Bawana Road, Delhi-110042, India

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GUIDELINES FOR PREPARING THE THESIS

1. PREAMBLE

While utmost attention must be paid to the content of the thesis/dissertation/report (hereinafter called the 'thesis'), which is being submitted in partial fulfillment of the requirements of the respective degree, it is imperative that a standard format be prescribed. The same format shall also be followed in preparation of the final soft copies to be submitted to the Library in future.

2. ORGANISATION OF THE THESIS/DISSERTATION/REPORT

This thesis shall be presented in a number of chapters as decided by supervisor and scholar approved by DRC, starting with Introduction and ending with Summary and Conclusions. Each of the other chapters will have a precise title reflecting the contents of the chapter. A chapter can be subdivided into sections, sub-sections and sub-sub-section so as to present the content discretely and with due emphasis.

The sequence in which the thesis contents should be arranged and bound should be as follows:

1. Cover Pages and Title Page
2. Acknowledgement
3. Candidate's Declaration
4. Certificate by the Supervisor(s)
5. Abstract
6. List of Publications
7. Table of Contents
8. List of Tables
9. List of Figures
10. List of Symbols, Abbreviations and Nomenclature
11. Chapters 1, 2, ..., Chapter X)
12. References
13. Appendices
14. List of Publications and their proofs (Reprint/Acceptance Letter/Mail)
15. Plagiarism Report
16. Curriculum Vitae/Brief Profile

3. THESIS PREPARATION

3.1 Page Dimensions, Margins and Quality

- Standard A4 size paper may be used for preparing the copies. It should have the following page margins:

Top edge	:	35 mm
Bottom edge	:	30 mm *
Left side	:	40 mm
Right side	:	25 mm

- The thesis shall be printed/xeroxed on white bond paper, whiteness 95% or above, weight 70 gsm or more. Tables and figures should be prepared on good quality paper preferably not lower than 70gsm. Tables and figures should conform to the margin specifications. Large size figures should be photographically or otherwise reduced to the appropriate size before insertion.

3.2 Cover Page/Title Page

A specimen of the cover/title page is given in the Annexure I. It carries.

- (a) The **TITLE OF THESIS** (Times New Roman, font size 20, bold, single line spacing, all characters uppercase except the symbols and numerals if used in the title of the thesis; centered within the specified margin of the page).

TITLE OF THESIS

- (b) The phrase (Times New Roman, font size 14, bold, each line in the Title/Sentence mode, single line spacing, centered within the specified margin of the page).

Thesis Submitted in Partial Fulfillment of the Requirements for the Degree of

- (c) The name of the degree (Times New Roman, font size 20, bold, the whole line in upper case, centered within the specified margin of the page).

DOCTOR OF PHILOSOPHY or **Post-Graduation Program Name** in **Field of Specialization/ Discipline**

Where **in** (Times New Roman, font size 14, bold, both the characters lowercase, centered within the specified margin of the page).

Where **Field of Specialization/ Discipline** (Times New Roman, font size 16, bold, in Title mode, centered within the specified margin of the page).

- (d) **by** (Times New Roman, font size 14, bold, both the characters lower case, centered within the specified margin of the page).

by

- (e) **Name of the Student** (Times New Roman, font size 16, bold, full name as enrolled, all characters in Title mode case, centered within the specified margin of the page).

Name of the Student

- (f) **Roll Number** (Times New Roman, font size 12, bold, and all numerals within a pair of small parenthesis, underneath the name of candidate and centered within the specified margin of the page).

(Roll No. 2K/xxxxxxxxxx)

- (g) Phrase of supervision (Times New Roman, font size 12, bold, line in the Title mode, centered within the specified margin of the page).

Under the Supervision of

- (h) NAME(S) OF SUPERVISOR (S) (Times New Roman, font size 14, full name in title mode prefixed by Prof. or Dr. centered within the specified margin of the page, separated symmetrically (left and right aligned) in the same line in case of two supervisors. In case of three supervisors; name of two supervisors (left and right aligned) and third one in next line (centered aligned) followed by brief one-line mention of the names of the institution of the supervisors).

(Name) _____ (Middle Name) _____ (Surname)

Designation, Name of the department/Centre

Name of the Institution/University/Organization

- (i) University logo (size=30 mm dia)
- (j) Phrase for the name of the Department/Centre (Times New Roman, 14 pts., bold, full name of the University faculty in title mode, centered within the specified margin of the page).

**To the
Department/Centre of _____**

For example,

Department of Computer Science and Engineering/ Centre of Geoinformatics

- (k) Name of the University (Times New Roman, font size 16, bold, full name, all characters' uppercase/Title mode, centered within the specified margin of the page).

**DELHI TECHNOLOGICAL UNIVERSITY
(Formerly Delhi College of Engineering)
Shahbad Daulatpur, Main Bawana Road, Delhi-110042, India**

- (l) Month, Year (Times New Roman, font size 14, bold, full name of the month in title mode, comma, 4-digit year in Arabic, all centered within the specified margin of the page).

December, 2023

3.3 Candidate's Declaration

The Bonafide Certificate of Supervision of the thesis given by the supervisor(s) shall be in one and half line spacing using Times New Roman font size 12, as per the format shown in **Annexure II**.

3.4 Bonafide Certificate by the Supervisor

The Bonafide Certificate of Supervision of the thesis given by the supervisor(s) shall be in one and half line spacing using Times New Roman font size 12, as per the format shown in **Annexure III**. The heading **CERTIFICATE** Times New Roman font size 14 bold in the center should start about 60 mm -70 mm from the top of the page.

The certificate shall carry the supervisor's signature in original and shall be followed by the supervisor's name, academic designation (not any other responsibilities of administrative nature), department and full address of the institution where the supervisor has guided research scholar.

In case of two supervisors, the details about the signature, names, etc. mentioned above shall be centered symmetrically within the specified margin of the page. In case of three supervisors, the details of the third supervisor will appear in the centre underneath the first two.

The place and date of signature (left justified) common for all the supervisors will appear below the signature(s) of the supervisor(s). One and a half spacing in Times New Roman with size 12 should be used.

3.5 Abstract

Abstract should be an essay type of narration not exceeding four pages outlining their search problem, the methodology used, a summary of the findings, possible applications of the research, and suggestions/directions for future research. The abstract should not contain cross citations. It should be typed single line spacing, in Times New Roman with font size 12 within the specified margin of the page. It should begin with the heading as the title of the thesis in title mode centered (bold), the name of candidate (next line) centered, and then 'ABSTRACT' with font size 14, bold and centered. The text of abstract should begin thereafter.

3.6 Acknowledgements

Acknowledgements shall be brief and should not exceed one page when typed in single spacing Times New Roman with font size 12 within the specified margin of the page. It should begin with title **ACKNOWLEDGEMENTS** Times New Roman with font size 14 bold as heading placed in centre. The signature of the candidate shall be made at the bottom right end above his./her name typed in title case. One and a half spacing in Times New Roman with size 12 should be used.

3.7 Table of Contents

The table of contents should list all the contents following this section. The preceding section like the Certificate and Acknowledgements will not find a place amongst the items listed in the Contents, but the page numbers in lowercase Roman letters shall be accounted for them. The title **TABLE OF CONTENTS** in Times New Roman with size 14 bold a shading is placed in centre. Single spacing in Times New Roman with size 12 should be adopted for typing the contents in a manner shown in specimen copy of the **TABLE OF CONTENTS** as given in **Annexure V**.

3.8 List of Tables

The list of tables should use exactly the same numbers and captions as they appear above the tables in the text. Single spacing in Times New Roman with size 12 should be used.

3.9 List of Figures

The list of figures should use exactly the same numbers and captions as they appear below the figures in the text. Single spacing in Times New Roman with size 12 should be used.

3.10 List of Symbols, Abbreviations and Nomenclature

The list of symbols, abbreviation and nomenclature should use exactly the same numbers and captions as they appear above the tables in the text. Single spacing in Time New Roman with size 12 should be used typing the matter under this head. As far as possible, standard and popularly used symbols, abbreviations etc. should be adopted.

3.11 Chapter

Chapters of a thesis may be broadly divided into 4 parts (i) introduction, literature survey and Identification of problem and issues (ii) statement, formulation and presentation of the problem, solution approach (iii) findings, results, discussion and implementation (iv) Conclusion, Future Scope and Social Impact.

- Each part may be suitably divided in to several chapters, and a chapter may be further divided into several sections and sub-sections, sub-sub-sections.
- Each chapter should be given an appropriate title. Whereas the last chapter should be titled as “Conclusion, Future Scope and Social Impact” only. The social impact should consist the direct/indirect impact or the practical implications of the thesis work for the society.
- Tables and figures in a chapter should be typed in title mode in single space in Times New Roman with font size 12. The titles of tables should be placed directly above the table where as the titles of figures should be placed directly underneath the figure in the very same page which refers to the contents they annotate.
- Foot notes should be used sparingly. They should be typed single space and placed directly underneath in the very same page which refers to the material they annotate.

3.12 Citation of References in the Thesis

Any work of other researchers used either directly or indirectly used in the research must be indicated at appropriate places in the thesis. It could be a journal paper, a paper in conference proceedings, a monograph, a personal communication, or a book; in physical or electronic form.

There are several standards for referencing. A candidate may choose one of his/ her choice with the consent of the thesis supervisor(s) and should be consistent throughout. A simple and commonly approach is suggested here.

A reference (other than a book or monograph) should be mentioned at the appropriate places in the text of the thesis by the last name of the first author followed by the year of publication placed inside a pair of parentheses.

- (i) An improved algorithm has been adopted in literature by Jhaand Shanker (2009).
- (ii) The issue of FMS scheduling along with balancing has been discussed by Kumar and Shanker (2000a) while the interaction amongst the objectives has been extensively investigated by Kumar and Shanker(200b) and Stickeret al (1984).

In case of a book or a monograph, however, the name/of author should be followed by the year within the pair of parentheses. For example, Chopra and Meindl (2003) have dealt at length the analysis and design of supplychain.

For the references having two authors, the last names of the two authors in the order of appearance can be used while for more than two authors, generally the last name of the first author followed by et al. and then the year within parentheses is used.

3.13 Listing of References in the REFERENCE section

The listing of references should be typed in alphabetical order of the first author's name in single spacing starting 4 spaces below the heading REFERENCES in Times New Roman with font size 14 bold. The name(s) of the author(s) should be immediately followed by the year and other details. The references should be serially numbered, separated by single space. The papers (in journal or proceedings) should be in sentence mode followed by the name of journal (in italics), vol. issue, and page (from-to) while the book titles should be in title mode in italics followed by the place and publishers. E- resources should have their proper URL. A typical illustrative list given relates to the citation examples quoted above.

For typing the references, Times New Roman with font size 11 is recommended.

Jha, J.K. and Shanker, K., 2009. A single-vendor single-buy reproduction-inventory model with controllable lead time and service level constraint for decaying items. *International Journal of Production Research*, Vol. 47, Issue 24, pp. 6875–6898.

Chopra, S. and Meindl, P., 2003. *Supply Chain Management: Strategy, Planning, and Operation*. New Jersey, Prentice Hall.

Kumar Neeraj and Shanker Kripa, 2000a, A theory of balancing mechanism for comparing the effectiveness of imbalance measures in FMS loading, Proceedings of the Special International Conference on Production Research (ICPR), 2000, Bangkok, August 2-4, 2000, pp. 133-139.

Kumar Neeraj and Shanker Kripa, 2000b, Interaction among FMS loading objectives: a parabolic relationship between workload balance and machine utilization, Proceedings of the Special International Conference on Production Research (ICPR) 2000, Bangkok, August 2-4, 2000, pp. 234-239.

Snyder, L.V, 2004. *Lehigh University*. [Online](1.3) Available at: <http://www.lehigh.edu/~lvs2/download/vrpsolver.html> [accessed 17 December 2008].

3.14 Appendices

Appendices in a thesis are provided to give supplementary information, which if included in the main text may serve as a distraction and could tend to dilute theme under discussion.

- Each appendix must find its reference in the main body of the thesis.
- Appendices shall carry the title of the contents reported and the same title shall be made in the contents page also.
- Appendices should be numbered using Roman numeral in uppercase, e.g. Appendix-I, Appendix-II, etc.
- Figures, tables, equations and references appearing in appendices should be numbered locally to an appendix e.g. II.1, II.2, and III.5 etc and should be referred to appropriate places just as in the case of chapter.

3.15 Plagiarism Report

The plagiarism verification form as per Annexure IV along with the plagiarism report should be placed.

3.16 List of Publications and their proofs (Reprint/Acceptance Letter/Mail)

The list of publications made by research scholar during the period of research pertaining to the thesis submitted for the degree should be listed in chronological order in the order of international refereed journals, national refereed journals, proceedings of the conferences, in the same style as followed in providing the list of references (section 3.13). These publications, wherever relevant should be referred to in the main body of the thesis.

In addition, the proofs of the publications in the form of their reprints/acceptance letter/mail need to be attached.

3.17 Curriculum Vitae/Brief Profile

The candidate's updated curriculum vitae/brief profile should be placed.

4. TYPING INSTRUCTIONS

4.1 General

- This section includes additional information for final typing of the thesis. Some Information given earlier under 'Manuscript Preparation' shall also be referred to.
- The impression on the typed/ duplicated/ printed copies should be black in color.
- Certain symbols characters or markings not found in a standard word processor may be hand written using Indian ink or a stylus pen (in case stencil sheets are used). Corrections, interlineations and crossing out of letters or words are not permitted in any of the copies of the thesis intended for submission. Erasures, if made, should be neatly carried out in all copies.
- A sub-heading at the bottom of a page must have at least two full lines below it or else it should be carried over to the next page.
- The last word of any page should not be split using a hyphen.
- Single spacing should be used for typing the general text. The general text shall be typed in font Style Times New Roman and Font Size 12.
 - Single spacing should also be used for typing:
 - Long Tables
 - Long quotations
 - Foot notes
 - Multilane captions
 - References
- All quotations exceeding one line should be typed in an indented space -the indentation being 15mm from either margin.

4.2 Chapters, Sections, Sub-sections, and Paragraphs

The format for typing Chapter headings, Section headings and sub-section headings are explained through the following illustrative examples.

Chapter Heading	:	Chapter 1 Introduction
Section	:	1.1 Outline of Thesis
Sub Section Heading	:	1.1.2 Literature Review

The word **CHAPTER (no.)** without punctuation should be centered 50mm down from the top of the page. Two spaces below, the title of the chapter should be typed centrally in upper case (capital letters) **TITLE OF THE CHAPTER**. The text should commence 4 spaces below this title, the first letter of the text starting 20mm, inside from the left hand margin.

The section or sub-section headings preceded by their numberings should be left-justified. The typed material directly below section or sub-section headings should commence 2 spaces below it and should be offset 20 mm from the left hand margin. The text can be divided over paragraphs within a section or sub-section. Each paragraph should commence 2 spaces below the last line of the preceding paragraph, the first letter in the paragraph being indented from the left hand margin by 20 mm.

5 NUMBERING INSTRUCTIONS

5.1 Page Numbering

Beginning with the first page of the text in the thesis (chapter 1), all pages should be numbered consecutively and consistently in Arabic numerals through the appendices. Page numbers prior to Chapter 1 should be in lower case Roman numerals. The title page is considered to be page (i) but the number is not printed. All page numbers should be placed without punctuation in the upper right hand corner, 12 mm from the top edge and with the last digit even with the right hand margin.

5.2 Numbering of Chapters, Sections and Sub-sections

The numbering of Chapters, sections and sub-sections should be done using Arabic numerals only and further decimal notation should be used for numbering the section and sub-sections within a chapter. For example sub-section 4 under section 3 of chapter 2 should be numbered as 2.3.4. The heading for a section or a sub-section should immediately follow in the same line after the number with a single space in between.

Appendices and their sections and sub-sections should be numbered in an identical manner using uppercase Roman e.g. I, II, starting with Appendix-I.

5.3 Numbering of Tables and Figures

Tables and figures appearing anywhere in the thesis should bear appropriate numbers. The rule for assigning such numbers is illustrated through an example. If a figure in Chapter 3 happens to be the fourth, then Fig.3.4 is assigned to that figure. Identical rules apply for tables except that the word figure is replaced by the word Table. If figures (or tables) appear in appendices, for example the third figure in Appendix-II will be designated as Fig.3. If a table is to be continued in to the next page, then a line should be drawn underneath an unfinished table and the phrase continued on page no... placed on the right side and under lined should be typed just below the line. The top line of the table continued on the next page should, for example read Table 2.1 (continued) placed centrally and underlined.

While referring to a figure or table in the body of the thesis, it should be referred to as Fig. 3.4, Table 2.1, Table-II.6, and so on.

5.4 Numbering of Equations

Equations appearing in each Chapter or Appendix should be numbered serially, the numbering commencing a fresh for each Chapter or Appendix. For example, the eighth equation in Chapter 2 should be numbered as (2.8) thus: $f = c + xy$

While referring to this equation in the body of the thesis it should be referred to as Eqn.

6 THESIS SUBMISSION AND BINDING SPECIFICATIONS

6.1 Preparation of Research Summary

After the completion of the research work and preparation of the draft thesis, a research summary is to be prepared in close contact with the thesis supervisor(s). It should begin with the title of the thesis (in Times New Roman with size 14 bold, centered), a single space gap, Like the thesis, the Research followed by the name and enrollment of the candidate (in Times New Roman with size 12 bold, centered) and then a single space gap followed by the title **Research Summary** (in Times New Roman with size 12 bold, centered). After a gap of space, the text should begin on the same page (there is no need for a title page).

Summary may be broadly divided in to 3 parts (i) introduction, literature survey and identification of problem and issues (ii) statement, formulation and presentation of the problem, solution approach (iii) findings, results, discussion, implementation and conclusions, and directions for future research. It should be typed single line spacing, in Times New Roman with size 12 within the specified margin of the page. The total number of typed pages should not exceed 10. The use of tables, figures, equations should be absolutely minimum unless they are extremely essential. Only the essential references should appear in the text. Sections and subsections (not exactly the same as used in the main thesis) may be used to enhance their readability. Only minimal essential part of appendices and reference list should be included as part of the Research Summary.

6.2 Submission for Evaluation

After the successful completion of viva voce examination and with approval of the viva Voce board

- (a) The candidate should finalize the thesis and research summary should be prepared as per guidelines provided in this manual. In case of any problems, the supervisor(s) should be contacted.

- (b) The candidate should fill the checklist and sign the Certificate of Thesis Submission for Evaluation (**Annexure-VI**). The Certificate should be signed and submitted in duplicate. One copy after stamping by the concerned University official with due entries will be returned to the candidate.
- (c) For evaluation purposes, a candidate for **Ph D degree** is required to submit
- (i) four copies of Research Summary
 - (ii) Four hard copies of the thesis printed on both sides and spiral bound using flexible cover of thick white art paper. The cover page should be printed as per specifications for the title page (**Annexure-I**).
 - (iii) A CD with exactly identical contents in pdf format. The Candidate should ensure that the CD can be opened on any system.
- (d) For evaluation purposes, a candidate for **M.Tech. degree** is required to submit.
- (i) Three hard copies of the thesis printed on both sides and spiral bound using flexible cover of thick white art paper. The cover page should be printed as per specifications for the title page (**Annexure-I**).
 - (ii) A CD with exactly identical contents in pdf format. The candidate should ensure that the CD can be opened on any system.

6.3 Final Submission

Incorporating all the suggestions made during the evaluation process by the internal and external examiners and the suggestions emerging during *viva voce* examinations including modifications in the title of the thesis.

Following should then be submitted:

- (a) Certificate of Final Thesis Submission (**Annexure VII**) signed by the candidate and the supervisor(s) certifying that all the corrections suggested by the examiners have been incorporated, the thesis has been prepared as per guidelines, due credit to other researchers have been appropriately accorded and no part of the thesis is copied from any other source.
- (b) The final thesis should be printed on both sides on good quality white paper not less than 80gsm and hard bound as per specifications given in **Annexure-VI**. The cover page ~~and~~ be printed as per specifications for the title page (**Annexure-VIII/IX**) except that it will include month and year of final submission.
- (c) **Colour Code:** The color code for the thesis will be as follows:
- (i) **M.Tech.**-bound with hard cover not less than 120gsm with printed in **blue** color. The side back of the thesis should also carry the title, name of candidate and month and year of final submission.
 - (ii) **Ph. D.** –with impressions embossed in Permanent **Maroon color**. The side back of the thesis should also carry the title, name of candidate and month and year of final submission.
- (d) For electronic repository of the University, a CD with exactly identical contents as the final thesis in pdf format should also be submitted. The candidate should ensure that the CD can be opened on any system. The CD should carry the name, enrollment number and programme of the candidate.

- (e) **Number of copies** (incorporating all corrections including viva-voce examination)
Ph.D.: Two copies printed on both sides and hard bound as per University specifications, plus a CD with thesis contents in pdf format.
M.Tech: Two copies printed on both sides and hard bound as per University specifications plus a CD with thesis contents in pdf format.

Note: The candidate must submit the required certificates at the time of both the submissions (a) for evaluation and (b) final after viva voce examination for provisional degree certificate.

7. SIZE OF THESIS

There is no rigid restriction on the size of the thesis. However, for Ph.D., it should not generally exceed 300 pages of the typed matter beginning from the first page of Chapter to the last page of the last Appendix. Similarly, for M.Tech., it should be not exceeding 125 pages.

8. REFERENCES

The referencing style must be uniform throughout the thesis. It has to be decided by the concerned department research committee.

TITLE OF THESIS

**A Thesis Submitted
In Partial Fulfillment of the Requirements
for the Degree of**

DOCTOR OF PHILOSOPHY

by

**NAME OF STUDENT
(Enrollment No.)**

**Under the Supervision of
Dr (NAME OF SUPERVISOR)
Institution**



Department of

**DELHI TECHNOLOGICAL UNIVERSITY
(Formerly Delhi College of Engineering)
Shahbad Daultpur, Main Bawana Road, Delhi-110042. India**

Month, Year



DELHI TECHNOLOGICAL UNIVERSITY
(Formerly Delhi College of Engineering)
Shahbad Daulatpur, Main Bawana Road, Delhi-42

CANDIDATE'S DECLARATION

I _____ hereby certify that the work which is being presented in the thesis entitled _____ in partial fulfillment of the requirements for the award of the Degree of Doctor of Philosophy, submitted in the Department of _____, Delhi Technological University is an authentic record of my own work carried out during the period from _____ to _____ under the supervision of _____.

The matter presented in the thesis has not been submitted by me for the award of any other degree of this or any other Institute.

Candidate's Signature

This is to certify that the student has incorporated all the corrections suggested by the examiners in the thesis and the statement made by the candidate is correct to the best of our knowledge.

Signature of Supervisor (s)

Signature of External Examiner



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CERTIFICATE BY THE SUPERVISOR(s)

Certified that **Name of student** (enrollment no.....) has carried out their search work presented in this thesis entitled "**Title of Thesis.....**" for the award of **Doctor of Philosophy/Master of Technology**(print only that is applicable) from Department of Information Technology, Delhi Technological University, Delhi, under my/our (print only that is applicable) supervision. The thesis embodies results of original work, and studies are carried out by the student himself/herself (print only that is applicable) and the contents of the thesis do not form the basis for the award of any other degree to the candidate or to anybody else from this or any other University/Institution.

Signature	Signature
(Name of Supervisor)	(Name of Supervisor)
(Designation)	(Designation)
(Address)	(Address)

Date:

Note: In case of only one supervisor, the sole supervisor will sign on the right side and the details on the left will not be printed. In case of three supervisors, the third one along with his/her name, designation, address will sign in the centre of the page underneath the details of soft wood her supervisors. The date, however, will be common to all.



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PLAGIARISM VERIFICATION

Title of the Thesis _____

Total Pages _____ Name of the Scholar _____

Supervisor (s)

(1) _____

(2) _____

(3) _____

Department _____

This is to report that the above thesis was scanned for similarity detection. Process and outcome is given below:

Software used: _____ Similarity Index: _____, Total Word Count: _____

Date: _____

Candidate's Signature

Signature of Supervisor(s)

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Shahbad Daultpur, Main Bawana Road, Delhi-110042. India

CERTIFICATE OF THESIS SUBMISSION FOR EVALUATION
(Submit in Duplicate)

1. Name:
2. Roll No.:.....
3. Thesis title:.....
.....
.....
4. Degree for which the thesis is submitted:.....
5. Faculty of the University to which the thesis is submitted:
.....
6. Thesis Preparation Guide was referred to for preparing the thesis. YES NO
7. Specifications regarding thesis format have been closely followed. YES NO
8. The contents of the thesis have been organized based on the guidelines YES NO
9. The thesis has been prepared without resorting to plagiarism. YES NO
10. All sources used have been cited appropriately. YES NO
11. The thesis has not been submitted elsewhere for a degree. YES NO
12. Submitted 2 spiral bound copies plus one CD. YES NO

(Signature of Candidate)

Name(s):

Roll No:



DELHI TECHNOLOGICAL UNIVERSITY
(Formerly Delhi College of Engineering)
Shahbad Daulatpur, Main Bawana Road, Delhi-110042, India

CERTIFICATE OF FINAL THESIS SUBMISSION
(To be submitted in duplicate)

1. Name:
2. Roll No:
3. Thesis title:
.....
.....
4. Degree for which the thesis is submitted:
5. Faculty (of the University to which the thesis is submitted)
.....
6. Thesis Preparation Guide was referred to for preparing the thesis. YES NO
7. Specifications regarding thesis format have been closely followed. YES NO
8. The contents of the thesis have been organized based on the guidelines. YES NO
9. The thesis has been prepared without resorting to plagiarism. YES NO
10. All sources used have been cited appropriately. YES NO
11. The thesis has not been submitted elsewhere for a degree. YES NO
12. All the correction has been incorporated. YES NO
13. Submitted 2 hard bound copies plus one CD. YES NO

(Signature(s) of the Supervisor(s))
Name(s):

(Signature of Candidate)
Name:
Roll No:

M.Tech. Thesis
Title of Thesis Title of Thesis Title of Thesis Title of Thesis
Name of the Candidate
Month Year

TITLE OF THESIS


A Thesis Submitted
In Partial Fulfillment of the Requirements for the
Degree of

MASTER OF TECHNOLOGY
in
FIELD OF SPECIALIZATION

by

NAME OF STUDENT
(Enrollment No.)


Under the Supervision of
Dr (Name of Supervisor), Institution



Department of

DELHI TECHNOLOGICAL UNIVERSITY
(Formerly Delhi College of Engineering)
Shahbad Daultpur, Main Bawana Road, Delhi-110042, India

Month, Year

<p>Ph. D Thesis</p>	<p style="text-align: center;">TITLE OF THESIS</p> <p style="text-align: center;">A Thesis Submitted In Partial Fulfillment of the Requirements for the Degree of</p> <p style="text-align: center;">DOCTOR OF PHILOSOPHY</p> <p style="text-align: center;">by</p> <p style="text-align: center;">NAME OF STUDENT (Enrollment No.)</p> <p style="text-align: center;">Under the Supervision of Dr (Name of Supervisor), Institute</p> <div style="text-align: center;">  </div> <p style="text-align: center;">Department of.....</p> <p style="text-align: center;">DELHI TECHNOLOGICAL UNIVERSITY (Formerly Delhi College of Engineering) Shahbad Daultapur, Main Bawana Road, Delhi-110042, India</p>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Title of Thesis Title of Thesis Title of Thesis Title of Thesis</p>	
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Name of the Candidate</p>	
<p>Month Year</p>	<p style="text-align: center;">Month, Year</p>



DELHI TECHNOLOGICAL UNIVERSITY
(Formerly Delhi College of Engineering)
Shahbad Daultapur, Main Bawana Road, Delhi-42
Academic PG

F. No. 105-86/Acad-PG/Travel Grant Regulations/2023

Dated: /04/2024

REVISED REGULATIONS FOR TRAVEL GRANT
UG/PG/Ph.D(STUDENTS)

In supersession of earlier regulation no. 101(21)/Acad./B.Tech/Admin/2013-14/998-1007 dated 04.07.2023 regarding Regulations For Travel Grant (Students) all the applications for Travel Grant (Students) shall be processed as per following Regulations. The Regulations extend financial assistance to UG, PG, and Ph. D. students of Delhi Technological University for presenting Research Paper / Poster in National/International Conference/Events (where active participation of the students is required) in the areas of Engineering & Technology, Management, Sciences and other areas as per the Delhi Technological University Act.

The scheme is aimed at promoting research and development activities in various areas of professional education in an academic department by providing opportunity to students to interact at national and international level to update with the global changes in the concerned fields / area of specialisation.

1. ADMISSIBILITY:

- (i). The scheme is applicable to students of Delhi Technological University.
- (ii). The applicant must be active in research and / or must demonstrate innovative work in the subject area with good academic record.
- (iii). The scheme is operative for presenting research paper/poster in a National /International Conference only. The proposal for attending any Short Term / long Term training course(s)/ internship either within or outside the country shall not be considered under this scheme.
- (iv). The grant shall be admissible only once in the entire duration of the program an applicant is registered for. An applicant shall not be eligible for grant, if during the entire programme he/she had already availed any financial assistance under this scheme or denied of such facility under disciplinary action etc.

2. FINANCIAL ASSISTANCE:

The financial assistance shall be restricted to the total admissible amount sought under the following Heads on reimbursement basis once in entire duration of the program subject to the decision of the University.

- (i). Travel expenses shall be restricted to travel from National and International Airport to destination Airport or from the nearest Railway Station or State Bus Transport Terminal by shortest route. In the event of attending the conference in India, full 3 AC Rail Fare may be allowed to the student and in case of foreign travel 50% of the cost of Air Fare (including taxes, airport charges etc.). Travel by road will be allowed in case the organising city is not connected by train and will be considered on case-to- case basis on recommendation of the HoD.

- (ii). Full Registration Fee. Registration fee for one paper / poster in a single conference / event shall be considered.
- (iii). Full Visa Fee

3. PROCEDURE FOR APPLICATION:

- (i). Applicants are required to apply only in the prescribed application format. Proposal received on any other format shall not be entertained.
- (ii). Applicant should attach conference brochure, letter of invitation, letter of acceptance of paper, copy of manuscript, proof of Registration fee paid, copy of application for visa, copy of tentative cost towards airfare, copy of current currency rates.
- (iii). Three copies of the full text of documents / papers prepared by students for presentation at the international conferences / seminars/symposia / workshops.
- (iv). Brief details of the organizers, title of the programme, place and duration of the conference, etc. in which the paper is proposed to be presented.
- (v). Incomplete application shall be rejected and not entertained.
- (vi). The proposal should reach respective HoD well in advance (at least 60 days before scheduled dates of the travel/ conference). The HOD will generate OSI report, get research paper evaluated through the designated committee and forward application with enclosures, recommendations of the committee etc. to the Academic Section at least 30 days before scheduled dates of travel/ conference. The HoD may also comment/ evaluate the authenticity of the conference's organisers.
- (vii). Applicant should submit only one proposal at a time. In case of a joint publication, only one student author will be allowed to present paper.
- (viii). The applicant should plan and travel by shortest route under Economy / Excursion Class only and air fare certificate issued by Air India or any other approved airlines should be enclosed with the proposal. For travel within the country III tier AC Rail Fare is admissible. No transaction/ agent fee will be paid in case ticket is purchased through agent/ online. Ticket should clearly indicate base fare, taxes, commission etc.
- (ix). In case, an application of a candidate for a particular event (for a particular date as well as a particular venue) is rejected, the same shall not be considered again and no correspondence in this regard shall be entertained by the Delhi Technological University. In case of change of dates and venue fresh approval has to be sought.
- (x). Applications should be properly spiral bound to avoid any loss of paper. The Delhi Technological University shall not be responsible for loss of any documents.
- (xi). All documents/ annexures should be signed/ verified by the applicant student and faculty-author.

- (xii). The NOC issued, approval granted and/ or Grant offered/ sanctioned to attend a specific conference, cannot in any case, be utilized for the purpose of travel of attend any other Conference/event.
- (xiii). The Travel Grant shall be given only for the forthcoming events & no advance payment will be made on this account.
- (xiv). Grant shall not be given for merely attending a conference, Panel Discussions, Internships, Group Discussions and other group activities under these Regulations.
- (xv). Students working in Research projects should preferably avail this facility from project grant, if available and have to produce evidence from Principal Investigator in case such Travel Grant is not available in the Project Funds.
- (xvi). No reimbursement will be made if student leaves station without prior approval. Disciplinary action against student may be initiated in that case.
- (xvii). Students should be promoted to seek financial assistance from other Govt. bodies like DBT, DST, AICTE, UGC etc.
- (xviii). Students may apply in anticipation of acceptance of paper.
- (xix). The student must register for at least one semester after his return. This requirement may be waived on a case-by-case basis. For example, undergraduate students may be allowed to attend conference up to 3 months prior to graduation date. The aim is to distribute the travel Grant equitably to applicants of various Deptt. PhD/UG/PG programs, boys/girls, etc. It is hoped that the student receiving the award will voluntarily make a donation to the Institute/DTU Alumni Association later in his/her career so that other students might benefit.

4. PROCEDURE FOR EXAMINATION OF APPLICATION FOR TRAVEL GRANT:

- (i). Application along with required documents as mentioned in clause 3. PROCEDURE OF APPLICATION and copy (soft as well as hard) of manuscript be submitted to concerned HoD well in advance preferably 60 days before scheduled departure in prescribed format as per Annexure I attached to these REGULATIONS.
- (ii). HoD will generate a similarity index report on an internationally established reputed acceptable anti-plagiarism software and get manuscript examined by designated committee as notified vide order no. DTU/0413/2013/IRD/1908 dated 30.09.2013, consisting of following members:

a. In case of international conference (which is organised out of India):

- (i) HoD of the Concerned Department.
- (ii) One Senior Professor of the Concerned Department.
- (iii) One Senior Professor of any other Department.

- (iv) One Expert member of the relevant field from National Importance Institution like; IITs, IISERS NITS NSIT, GGSIPU, etc. (Outside member will be paid TA/DA and Sitting fee as per DTU norms as being paid to BOS/DRC members from outside DTU).

b. In case of national conference (which is organised in India):

- (i) HoD of the Concerned Department.
- (ii) Two Faculty of the Concerned Department.
- (iii). HoD may ask for presentation of paper before the Committee.
- (iv). HoD will fill relevant columns of the applications itself (Part B) and send full proposal with all relevant of documents, manuscript, tentative head-wise expenditure, similarity index report and recommendations on suitability of paper, standard of conference etc to Academic Section preferably 45 days before scheduled dates of travel/ conference for further seeking approval of Competent Authority.
- (v). Maximum limit for OSI may be kept within 15% with citations' button as 'off' excluding references/bibliography. OSI should be generated by selecting 1% block of the paper in which maximum OSI permissible limit is 15%

5. RE-IMBURSEMENT CLAIM:

Soon after the event is concluded, the application (Annexure 2) complete in all respect as per the prescribed format should reach the Dean (Acad.) through HoD. The applicant should submit the claim for the expenditure actually incurred, in the Claim Form duly signed by the Head of his/her Deptt. along with the copies of the following documents:

- i. Original receipt of the Registration Fee issued by the organizers.
- ii. Receipt of VISA fee and copy of VISA.
- iii. Claim form as per Annexure-II.
- iv. Bills in original
- v. Travel Documents.
- vi. Statements of expenditure along with the original copies of Ticket (Boarding Pass, if travel by air properly legible and in original)
- vii. Certificate from approved airlines indicating the shortest route and cheapest fare to the venue approved.
- viii. Certificate of attendance/ participation issued by the organizers.
- ix. Voucher indicating the rate at which foreign currency is purchased. A brief report of any other scientific and technical activities under taken during the visit.

x Other visits undertaken during the period, duly signed by the Supervisor and HOD.

xi. A brief report of the conference.

In case the reimbursement form is not attached with the above-mentioned required documents and not signed by Supervisor and Department Head, the claim form will not be entertained,

Faculty-in-charge will arrange for presentation of paper before whole class/ batch after concerned student returns from the conference, for enlightenment of other students.

(Prof. Rinku Sharma)
Dean (Academic-PG)

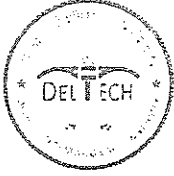
F. No. 105-86/Acad-PG/Travel Grant Regulations/2023

Dated: /04/2024

Copy to:

1. P.A. to the VC for kind information of the Hon'ble Vice Chancellor, DTU.
2. P.A. to the Registrar for kind information of the Registrar, DTU.
3. All Deans/HoDs/Branch Incharge(s), DTU.
4. Head, Computer Centre with the request to upload the same on University website.
5. Guard File.

(Prof. Rinku Sharma)
Dean (Academic-PG)



Delhi Technological University
Established under Govt. of Delhi Act 6 to 2009
Shahbad Daulatpur, Bawana Road, Delhi- 110042
(Examination Branch)

Ref :- (05)/DTU/Result Section/Decision-Policy/1749

Date: 01st Nov, 2023

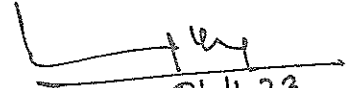
Office Order

Sub: Grade Moderation at Section Level for all Courses

1. Regulation of DTU Ordinance R.1(B).17 & R.1(B).18 provide guidelines for Grading System and Grading Moderation respectively.
2. In view of the variation observed in grades awarded to students among various class sections of a course in the Course wise Grading System, it is decided that :

"Grade Moderation shall be done at section level for all courses of all programmes/semesters".

This issues with the approval of Competent Authority



01.11.23.

(Dr. Kamal Pathak)
Controller of Examination

Ref :- (05)/DTU/Result Section/Decision-Policy/1749

Date: 01st Nov, 2023

1. PA to VC for kind information to the Hon'ble Vice Chancellor, DTU.
2. Registrar, DTU
3. Dean (Academic-PG)
4. Dean (Academic-UG)
5. All HoD's (circulate among the faculty members)
6. OIC B. Tech (Continuing Education)
7. Director East Campus
8. Head CC, with the request to upload on website
9. Guard File


01/11/2023
(Madhukar Ch.)
Incharge-Results

Grades of Internal Academic Audit A. Y. 2022-2023

Academic Year 2022-23						
S.no	Name of Department	Maximum Marks	Self-Assessment Score	Marks Obtained	% Marks	Grade
1	Applied Chemistry	1000	884	779	77.9	A
2	Humanities	635	-	319	50.23	B
3	Design	1000	581	349	34.9	B
4	DSM	1000	904	755	75.5	A
5	Electrical Engg.	1000	936	876	87.6	A+
6	ECE	1000	939.4	821.75	82.17	A+
7	CSE	1000	908	758	75.8	A
8	Information Technology	1000	770	757	75.7	A
9	USME	1000	921	848	84.8	A+
10	Environment Engg.	1000	864	751	75.1	A
11	Civil Engg.	1000	872	721	72.1	B++
12	Mechanical Engg.	1000	860	571	57.1	B
13	Applied Physics	1000	-	679.5	67.95	B+
14	Biotechnology	1000	859	803	80.3	A
15	Applied Mathematics	1000	795	816	81.6	A+
16	Software Engineering	1000	839	841	84.1	A+

**Grades of Re-assessment of Internal Academic Audit A. Y. 2021-22 of 12
Academic Department**

Academic Year 2021-2022						
S.no	Name of Department	Maximum Marks	Self-Assessment Score	Marks Obtained	% Marks	Grade
1	Humanities	1000	760	319	31.9	B
2	Design	1000	478	402.67	40.26	B
3	Electrical Engg.	1000	944	921	92.1	A++
4	CSE	1000	907	787	78.7	A
5	Information Technology	1000	833	752	75.2	A
6	USME	1000	809	700	70.0	B++
7	Environment Engg.	1000	-	737	73.7	B++
8	Civil Engg.	1000	873	729	72.9	B++
9	Mechanical Engg.	1000	860	503.5	50.35	B
10	Biotechnology	1000	866	760	76	A
11	Applied Mathematics	1000	804	808	80.8	A
12	Software Engineering	1000	818	808	80.8	A

Note: Department of AC, AP, ECE and DSM had obtained grade greater than "A" in Internal Academic Audit of A. Y. 2021-22 and hence their Re-Assessment was not done.